Construction News

BUILDING OPERATIONS FOR OCTOBER

Following is a list of contracts awarded, published by the F. W. Dodge Co., throughout the states of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and eastern Kansas:

Jan. 1 to Nov. 1, 1916	$1,121,616,397
Jan. 1 to Nov. 1, 1915	769,173,100
Jan. 1 to Nov. 1, 1914	632,462,200
Jan. 1 to Nov. 1, 1913	743,758,000
Jan. 1 to Nov. 1, 1912	743,331,500
Jan. 1 to Nov. 1, 1911	667,433,813
Jan. 1 to Nov. 1, 1910	694,007,066

NEW YORK STATE AND NORTHERN NEW JERSEY

Jan. 1 to Nov. 1, 1916	$225,106,500
Jan. 1 to Nov. 1, 1915	137,108,500
Jan. 1 to Nov. 1, 1914	112,360,500
Jan. 1 to Nov. 1, 1913	223,782,000
Jan. 1 to Nov. 1, 1912	206,392,500
Jan. 1 to Nov. 1, 1911	200,027,500
Jan. 1 to Nov. 1, 1910	205,844,000

These figures show that during the month of October for the territories given, contracts awarded amounted to $151,365,000 in the larger territories, and $44,303,000 in New York State and northern New Jersey. These figures show that the total of contracts awarded in October is considerably higher than any month in the past four. September had but $132,000,000, August $142,000,000, and July but $114,000,000. In the smaller territory, September had but $35,000,000, August $40,000,000 and July $29,000,000. This seems a little surprising on account of the lateness in the season, when in a normal year contracts would naturally commence to be more scarce.

A Completely Equipped Plant to Handle Reinforcing Steel—As an indication of what a staple line steel bars for reinforced concrete is becoming, an announcement made by the Republic Structural Iron Works Co. is of special interest. To take care of increasing business, this company has taken over the entire plant of the Avery Stamping Co., at 53rd and Lakeside Ave., Cleveland, Ohio, covering 100,000 sq.ft. On this site, following extensions, alterations and rebuilding, will be installed a complete plant for fabricating and shipping bars for concrete. Of special value to the contractors are the storage facilities developed. With this plant in operation, a contractor can place his order for a complete building. The steel can be fabricated, placed in storage and sent to the job as required. Facilities will be available for handling 4,000 tons of steel and more at a time.

The Great Advance in the Price of Railway Materials—The New York, New Haven & Hartford Railroad Co. in a circular to its officers and employees points out that the prices of all material and supplies used in the maintenance and operation of the railroad have been advancing continuously for more than a year, and that the advance during the last six months is even more serious than during the latter part of the year 1915. Accordingly, everyone is cautioned against waste. On all material excepting fuel, rails and ties, the average increase in price during the past twelve months has amounted, it is stated, to approximately 60%. During the year 1915 the company expended $4,787,000 for material of this description. At the present market prices the same amount and character of material would cost $7,659,000, or an increase of $2,872,000 for the year. It is therefore urged that every possible economy in the use of material and supplies be exercised—that repairs should be made instead of complete renewals in all cases where practicable, even where under normal conditions it might be better to renew than to repair.

A table is appended giving a list of a number of items of common use with the percentage of increase in the cost of each, as a matter of interesting and instructive information.

INCREASES RANGING FROM 10% TO 85% BETWEEN APRIL, 1915, AND JULY, 1916

Acids	47	Castings, grey iron	13	Pipe, galvanized	17
Air hose	38	Chains, all kinds	62	Pipe, malleable	59
Angle bars	33	Claw bars	30	Piston rods	15
Antimony (babbitt metal)	42	Copper (bar and sheet)	36	Roofing	17
Axles, car and tender	48	Couplers	18	Rope, Manila	61
Axles, driving	30	Crank pins	12	Sheathing	38
Axles, engine truck	63	Drills, all kinds	64	Springs, coil	74
Belting, axle	33	Ferrules, flue	36	Springs, elliptic	51
Belting, leather	59	Files	70	Steel, bar	77
Bolts, machine and carriage	40	Fuel oil	42	Tamping bars	85
Bolts and nuts	67	Fusees	33	Tamping picks	26
Brass (bar, sheet and spring)	54	Gaskets, air hose	11	Ties, cross	13
Bridge timber	44	Nails, wire	61	Ties, switch	18
		Pipe covering, all kinds	33	Tires	55
				Track spikes	77
				Waste	78

INCREASES RANGING FROM 85% TO 250% BETWEEN APRIL, 1915, AND JULY, 1916

Castings, brass	107	Journal bearings	89	Steel, firebox	195
Castings, steel	107	Rivets, boiler	132	Steel, tank	142
Cement	86	Rivets, structural	140	Track bolts	115
Gasoline	118	Steel, structural	91	Tubes, boiler	94
Iron bar	95	Steel, boiler	226	Tubes, brass	105

(From the "Commercial and Financial Chronicle.")

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Bay State St. Ry., Boston, plans extension to Country Club, Nashua, N. H. R. S Goff, Boston, Gen. Mgr.

New York—Buffalo & Depew Ry. plans extension from Depew to Bowmansville and from Depew to Lancaster. W. L. Upson, Gen. Mgr. and Ch. Engr. M. W.

New Jersey—Salem & Pennsgrove Traction Co. plans extension from Salem to Quinton. C. V. Martin, 705 Stock Exchange Bldg., Philadelphia, Secy.

Pennsylvania—Steelton & Highspire R.R., controlled by Bethlehem Steel Co., plans line from Steelton to Highspire.

Maryland—Towson & Cockeysville Electric Railway Co. plans to extend line from Timonium to Texas, about 2 mi. J. A Shriver, Belair, Gen. Mgr.

North Carolina—J. C. Kittrell, Henderson, interested in railway from Henderson to Wilson, via Castalla, about 50 mi.

Tennessee—D. B. Carson and W. H. Hillyer, Atlanta, Ga., plan railway from Nashville to Chattanooga.

Kentucky—L. M. Hunter, Owensboro, plans line from Ashland to Russell.

Ohio—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans twelve 100-car switch tracks in new yard at Cold Springs, west of Springfield. C. A. Paquette, Cincinnati, Ch. Engr.

Ohio—Cleveland, Southwestern & Columbus Railway Co. will lay 100-lb. rails from tracks of Toledo & Ohio Central R.R., Cleveland, to eastern corporation line of Bucyrus. E. F. Schneider, 525 Garfield Bldg., Cleveland, Gen. Mgr.

Ohio—Minster & Loramie Ry., Ft. Loramie, plans to extend line to Covington or Piqua. F. D. Carpenter, Lima, Gen. Mgr.

Indiana—Baltimore & Ohio Railroad Co. plans to spend about $75,000 for improving and enlarging freight yards at Garrett. R. N. Begien, Baltimore, Ch. Engr.

Indiana—E. J. Skehan and D. C. Moore, Richmond, interested in electric railway from Richmond and Ft. Wayne via Union City, Winchester, Portland and Decatur.

Illinois—Chicago, Fox Lake & Northern Electric Railroad Co. granted certificate by Pub. Utilities Comn. for railway from Evanston to Palatine and Lake Geneva, Wis., about 110 mi. H O. Strauss, Harris Bldg., Chicago, Engr. Noted Aug. 24

Illinois—Woodstock & Sycamore Traction Co. plans to electrify line from Sycamore to Genoa and Marengo, about 26 mi. T. E. Ryan, Genoa, Gen. Mgr.

Iowa—Iowa Railway and Light Co. plans to extend lines in Boone, about 2 mi. W. G. Dows, Cedar Rapids, Gen. Mgr.

Minnesota—St. Paul Southern Electric Railway Co., St. Paul, plans extension to Cresco, Iowa. J. J. Macdonald, Hastings, Supt

Kansas—Kansas City Railway Co. granted franchise to construct car line on 18th St. from Central to Kansas Ave., Kansas City. J. E. Gibson, Kansas City, Mo., Gen. Mgr.

Montana—Great Northern Ry. plans to extend Valier branch east from Valier to connect with Havre Great Falls line. A. H. Hogeland, St. Paul, Ch. Engr.

Texas—Rio Grande Ry. making surveys for new route from Brownsville to gulf. D. A. O'Brien, Brownsville, Vice-Pres. and Gen. Mgr.

Idaho—Chicago, Milwaukee & St. Paul Ry. making surveys for railway into white belt north Orofino. C. F. Loweth, Railway Exchange Bldg., St. Paul, Ch. Engr.

Utah—Salt Lake & Los Angeles Ry., Salt Lake City, plans to electrify line, also build extension to Garfield. About $300,000. J. Nelson, Salt Lake City, Gen. Mgr.

Washington—Lewiston, Nez Perce & Eastern R.R. plans extension from Tammany to Waha and Vollmer, Idaho. A. J. Warren, Lewiston, Idaho, Ch. Engr.

California—Montecito R.R., Los Angeles, plans to extend line 1 mi. next year. W. D. Larrabee, 204 Higgins Bldg., Los Angeles, Pres.

California—Tidewater Southern Co. applied to State Railroad Comn. for permission to extend line from Hatch to Irwin City, about 8 mi., and to issue securities to pay for extension. J. C. Lindsay, Stockton, Ch. Engr.

Ontario—Ontario Ry Bd., Toronto, plans to extend Toronto Suburban Ry. on Pape Ave. from Gerard St., Toronto. G. C. Royce, West Toronto, Gen. Mgr.

Saskatchewan—Saskatoon Municipal Ry., Saskatoon, plans link between Clarence Ave. line and 2nd Ave. line via 25th St. Bridge. About $10,000. G. D. Archibald, City Hall, Supt.

Bids In and Contracts Awarded

Virginia—Holston River Lumber Co., Abingdon, let contract railway to Clinch Mountain Dist., about 11 mi., to VAUGHAN CONSTRUCTION CO. Noted May 18.

West Virginia—Virginian Railway Co., Norfolk, let contract extension from Pemberton to Fireco, 8 mi., to WALTON CONSTRUCTION CO., Falls Mills, Va. Noted Oct. 12.

Tennessee—Illinois Central R.R. let contract additional tracks in Nonconnah Yards, Memphis, to ROACH & STANSELL, North Memphis Savings Bank Bldg., Memphis.

Illinois—Southern Illinois Railway and Power Co., Harrisburg, let contract extending line to Marion, Herrin and Benton and to build loop from Benton to Herrin via DuQuoin, Pickneyville, Murphysboro and Carbondale to HERMAN CONSTRUCTION CO., St. Louis, about $200,000. Noted June 22.

Wisconsin—Wisconsin Interurban System let contract single-track line from Madison to Portage, Prairie du Sac and Janesville, about 195 mi., to J. STEWART & CO., 30 Church St., New York.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Waltham—Bd. Alderman appointed committee to investigate lighting system with view to improving same.

N. Y., Caledonia—Nedrew Manufacturing Co. made plans for boiler house.

N. Y., New York—(Queens)—Astoria Veneer Mills and Dock Co., Ft. Blackwell St., making plans for 2 boiler houses. About $25,000. F. W. Korfmann, 406 9th Ave., Manhattan.

N. J., Newton—Citizens voted $8,000 for electric-light system. Noted Oct. 12.

Penn., Hazleton—L. Roessel Co. plans power house at silk plant. W. E. S. Dyer, Arch.

Penn., Sunbury—Northumberland County Gas and Electric Co. plans to improve local plant.

Md., Sparrows Point—Bethlehem Steel Co. made plans for new electric generating plant and engine room.

N. C., Bethel—City to rebuild electric-light plant.

N. C., Burlington—Piedmont Railway and Electric Co. plans transmission line to Elon College and Gibsonville, 1 mi. G. W. Hatch, Burlington, Supt.

Fla., Okeechobee—Southern Utilities Co., Jacksonville, has franchise to install electric-light and power system in Okeechobee.

Miss., Columbus—Council petitioned to issue $50,000 bonds for electric-light plant.

La., Kenner—See item under "Water-Works."

Light, Heat and Power (Continued)

La., Welsh—Citizens voted $15,000 bonds for extending electric-light system. Noted Oct. 19.

Ky., Olive Hill—City voted $10,000 bonds for electric-light and water systems.

Ohio, Bellefontaine—City making plans for addition to gas plant. About $50,000.

Ohio, Columbus—Columbus Railway and Light Co. plans to extend transmission line to Centerburg.

Ohio, Columbus—Ohio State University making plans for power house. About $200,000.

Ohio, Hamilton—Council passed ordinance authorizing expenditure of $5,700 for improving and extending electric-light plant.

Ohio, Lowellville—Republic Railway and Light Co., Sharon, making plans for extensive improvements to power station. Noted Nov. 2.

Ohio, Williamsport—Circleville Light and Power Co. granted 25-year franchise for electric-light and power system in Williamsport.

Ind., Edwardsport—Indiana Power and Light Co. making plans for 1-story power plant.

Ill., Bloomington—Council plans to spend $15,000 for improving electric-light plant.

Ill., Fairbury—Council appointed committee to investigate feasibility of installing electric-light plant.

Wis., McDill—J. Strange Paper Co., Neenah, plans dam and hydro-electric plant at McDill, near Stevens Point.

Wis., Merrill—Council plans to install street-lighting system.

Iowa, Buffalo—Council plans to install electric-lighting system.

Iowa, Lonerock—Lonerock Electric Light Co. plans power house.

Iowa, Sheldon—Sheldon Gas Co. making plans for plant. About $30,000. Western Gas and Construction Co., Ft. Wayne, Engr.

Minn., Ely—Kawishiwi River Power Co. organized to build hydro-electric power plant. About $1,500,000. T. W. Orbison, Appleton, Wis., Engr.

Minn., St. Cloud—Union Power Co. plans 50-mi. transmission line. About $10,000. J. Wintermeyer, St. Cloud, Ch. Engr.

Kan., Hiawatha—City plans new street-lighting system.

Kan., Munden—City to vote on proposition to install electric-light plant. W. H. Stenad, City Clk.

S. D., Dell Rapids—City receiving bids Nov. 28 for sale of $8,000 bonds for electric-light plant.

Mont., Poplar—City voted $6,500 bonds for electric-lighting plant.

Mo., Springfield—City election Dec. 12 to vote on $400,000 bonds for electric-light plant. T. J. Moore, Clk.

Ark., Gillett—Stuttgart Pub. Ser. Co., Stuttgart, plans plant at Gillet to furnish town with electric light and water. Company granted 50-year franchise.

Tex., Bertram—Elias Allen plans electric-light and power plant.

Tex., La Pryor—R. L. Couser and W. L. Tittsworth interested in electric-light plant in La Pryor.

Okla., Checotah—Council plans electric-light plant.

Okla., Pawhuska—City to vote on $7,000 electric-light bonds. J. M. Buckley, City Engr.

Colo., Greede—Commodore Mining Co. plans power house.

Nev., Gardenville—L. Ruhenstroth interested in electric-light plant in Gardenville.

Ariz., Duncan—J. P. Overholser and C. E. Adams plan to improve electric-light plant.

Wash., Davenport—Washington Water Power Co., Spokane, applied to Comrs. Lincoln County for 50-year franchise to build and operate transmission lines along roads Lincoln County.

Calif., Chula Vista—San Diego Electric Railway Co. plans substation.

Alta., Lethbridge—Citizens voted in favor of bylaw for $17,000 for additions to electric-light system.

Bids In and Contracts Awarded

Maine, Corinth—Bangor Railway and Electric Co. let contract substation to W. E. FISH, Bangor.

N. Y., Falconer—Goodwill Bros. let contract 1-story, 50x100-ft. boiler house to JAMESTOWN CONSTRUCTION CO., Jamestown.

N. Y., Niagara Falls—Titanium Alloy Manufacturing Co. let contract 1- and 2-story 28x72-ft. boiler house to PECKHAM CONSTRUCTION CO., Mutual Life Bldg., Buffalo. About $7,000.

Penn., Philadelphia—Misercordia Hospital, 54th St. and Cedar Ave., let contract power house to J. McSHAIN.

S. C., Chesnee—G. Blackwell let contract electric-light plant to C. S. BALLARD.

Ill., East St. Louis—Indiana Refining Co. let contract 1-story, 40x64-ft. boiler house to E. M. KIEFER, East St. Louis. About $6,000.

Kan., Parsons—Missouri, Kansas & Texas R.R. let contract heating plant to G. GOODLANDER, Kansas City, Mo. About $8,000.

Mont., Melstone—City let contract electric-light plant to E. T. BARRON, Roundup, $8,000. Noted Oct. 12.

Idaho, Pocatello—City let contract street lighting system to POCATELLO ELECTRIC CO. About $51,514. Noted Oct. 19.

BRIDGES

Proposed Work

Maine, Bangor—See item under "Streets and Roads."

Maine, Machias—City plans bridge. L. Bowker, Clk.

Mass., Chelsea—Boston & Albany R.R. petitioned Bd. Aldermen for permission to rebuild bridge over tracks at Bellingham St. F. B. Freeman, Boston, Ch. Engr.

Mass., Wilton—City plans highway bridge. About $4,000.

Conn., New London—(Official)—New York, New Haven & Hartford Railroad Co. received low bids sub-structure for Thames River Bridge from Holbrook, Cabot & Rollins Corporation, Boston, Mass., Foundation Co., 233 Broadway, New York, N. Y., Union Bridge and Construction Co., Kansas City, Mo. E. Gagel, Ch. Engr.

N. Y., Utica—New York Central R.R. plans rein.-con. bridge over tracks. About $30,000. G. W. Kittredge, Grand Central Term., New York, Ch. Engr.

N. J., Elizabeth—Union County receiving bids in December for bridge on South Front St. About $54,000. J. E. Roe, Elizabeth, County Clk. Noted Sept. 28.

N. J., Highlands—Bd. Freeholders, Monmouth County, making plans for rein.-con. bridge over Shrewsbury River. About $80,000. Address County Clk., Freehold.

N. J., Salem—Salem County making plans for bridge over Salem River. About $75,000. Address County Clk., Salem. Noted June 29.

Penn., Lancaster—Lancaster County Comrs. plan bridge over Beaven Dam in New Philadelphia, steel bridge over Sugar Creek, Wooster Rd., concrete bridge over Little Stillwater River at East Center St., Dennison. Address County Clk., Lancaster.

Penn., New Castle—Lawrence County Comrs. soon receive bids for several bridges. Address County Clk., New Castle.

Penn., Philadelphia—City soon receives bids for rein.-con. and steel bridges. Noted Nov. 2.

Penn., Reading—State Pub. Ser. Comn. granted permit for bridge over tracks of Lebanon Valley R.R. on Tulpehocken St. E. Ulrick, City Engr. Noted Oct. 12.

Penn., Williamsport—City making plans for rein.-con. bridge over McClure's Run on Washington St. J. B. Otto, City Engr.

W. Va., Huntington—City plans viaduct on 5th Ave. About $54,000. A. P. Maupin, City Engr.

Ga., Savannah—Chatham County Comrs. granted permission to Savannah & Northwestern Ry. to construct trestle across Pipemaker Canal. L. B. Ackerman, Ch. Engr.

Ga., Savannah—Central of Georgia Ry. plans bridge over Oconee River; also bridge over St. Augustine Creek on Tybee Division. C. K. Lawrence, Savannah, Ch. Engr.

Fla., Tampa—See item under "Streets and Roads."

Ala., Gadsden—Etowah County receives bids in November for steel bridge across Warrior River near Walnut Grove; also concrete bridge across Black River on Lookout Mountain. Address County Clk., Gadsden.

La., Des Allemanda—Highway Dept. receiving bids Dec. 4 for steel swing bridge across Bayou Des Allemanda. W. E. Atkinson, New Orleans, State Highway Engr.

La., Monroe—City plans bridge over Quachita River. About $300,000. R. O. Morrison, City Engr.

Tenn., Columbia—Maury County Comrs. plan concrete bridges and culverts. About $10,818. Address County Clk., Columbia.

Ohio, Akron—Summit County receiving bids Nov. 21 for bridge over Kenmore Canal. Address County Clk., Akron.

Ohio, Barberton—City made plans for Center St. Viaduct.

Ohio, Barberton—Council plans viaduct on Tuscarawas Ave.

Ohio, Bucyrus—Crawford County Comrs. plan bridges and improving roads in Whetstore, Holmes and Liberty Townships. S. L. Niederheiser, City Engr.

Ohio, Lebanon—Warren County Comrs. receiving bids Nov. 20 for rebuilding bridges in county. Address County Clk., Lebanon.

Ohio, Tiffin—Seneca County receiving bids Nov. 18 for Schubert Bridge, No. 18, Seneca Township. J. E. Hershberger, Tiffin, County Audr.

Mich., Flint—Council plans bridge over Flint River near Saginaw St. C. E. Shoeeroft, City Engr.

Mich., Marquette—See item under "Streets and Roads."

Ill., Clinton—De Witt County receiving bids about Mar. 1 for 128-ft. bridge. Address County Clk., Clinton. Noted Nov. 9.

Ill., Elgin—City making plans for bridge on Kimball St. M. Brightman, City Engr.

Wis., Milwaukee—(Official)—City voted $250,000 bonds for bridge over Milwaukee River between Oneida and Cedar St. J. C. Kinney, Jr., Supt. Bridges. Noted Oct. 19.

Iowa, Avon—Chicago, Rock Island & Pacific R.R. plans viaduct over tracks on Des Moines-Carlisle Rd. C. A. Morse, Ch. Engr.

Iowa, Fairchild—Jefferson County Comrs. soon lets contract for bridge over Skunk River. D. L. Teal, Fairfield, County Engr. Noted Nov. 9.

Iowa, McGregor—Chicago, Milwaukee & St. Paul Ry. plans steel bridge. C. F. Loweth, Chicago, Ch. Engr.

Minn., Carver—City making plans for bridge over Minnesota River.

Minn., Grand Marais—City plans bridge across Devil's Track River.

Minn., Lansing—Mower County plans 2 bridges over Cedar River. O. J. Simmons, Austin, County Audr.

Kan., Junction City—City soon receives bids for concrete bridge over Republican River between Junction City and Ft. Riley. Noted Sept. 28.

Kan., Kansas City—Missouri Pacific Railway System plans viaduct on James St. About $60,000. E. A. Hadley, St. Louis, Ch. Engr.

Kan., Kansas City—City making preliminary plans for viaduct on 7th St., about $1,800 ft. long, $250,000. Harrington, Howard & Ash, Orear Leslie Bldg., Consult. Engr. Noted Oct. 5.

Kan., Leavenworth—Leavenworth County Comrs. retained R. L. McAlpine, Engr., to make plans for Eudora Bridge over Kaw River, connecting Leavenworth and Douglas Counties. Address County Clk., Leavenworth.

Kan., Paola—Miami County plans 14 bridges. About $20,000. C. H. Helman, County Clk., Paola.

Kan., Parsons—Labette County Comrs. soon receive bids for concrete bridge on Main St. About $7,000. Address County Clk., Oswego. Noted Oct. 19.

S. D., Chamberlain—Chicago, Milwaukee & St. Paul Railway Co. making preliminary plans for bridge over Missouri River. C. F. Loweth, Chicago, Ch. Engr.

Mo., Kansas City—Bd. Pub. Wks. receiving bids Nov. 17 for 2 rein.-con. bridges over Brush and Shutte Creeks. About $14,000. Noted Nov. 9.

Ark., Mt. Ida—Montgomery County Comrs. voted appropriation for bridges. Address County Clk., Mt. Ida.

Ark., Texarkana—Miller County Highway and Bridge Dist. will soon sell $250,000 bonds for bridge over Red River. Noted June 15.

Tex., Dallas—Northern Texas Traction Co. will build steel bridge over Trinity River. About $300,000. V. W. Berry, Ft. Worth, Gen. Supt.

Tex., Waco—City voted $25,000 bonds for bridges and culverts. G. G. Gunley, City Engr. Noted Oct. 19.

Tex., Wichita—Wichita County Comrs. soon lets contract for 3 bridges. About $70,000. Noted July 6.

Okla., Idabel—McCurtain County Comrs. plan 3 bridges. Address County Clk., Idabel.

Okla., McAlester—Pittsburg County Comrs. making plans for bridge across South Canadian River near Canadian and Eufalfa. Address County Clk., McAlester.

Okla., McLoud—City plans to vote Nov. 28 on $30,000 bonds for concrete culverts.

Okla., Nowata—City voted $7,000 bridge bonds.

Okla., Pawhuska—State Highway Dept. approved plans for bridge on Main St. Noted May 18.

Okla., Sayre—Beckham County Comrs. soon receives bids for 2 rein.-con. bridges. C. R. Reid, Sayre, County Engr.

Okla., Shawnee—Pottawatomie County Comrs. plan bridge across South Canadian River, at Shawnee. Address County Clk., Tecumseh.

Ore., Marshfield—City soon receives bids for 180-ft. steel bridge.

Calif., Redwood City—City plans highway bridge at Dumbarton Point.

Calif., San Bernardino—Bd. Supervs. plans 2 bridges in Lytle Creek Canyon. About $56,000. Address County Clk., San Bernardino.

Que., Montreal—J. F. Jago Co., 37 Mayor St., Montreal, soon receives bids for bridge on Church Ave. About $78,887.

Que., Weir—Town receiving bids Dec. 2 for steel bridge over Rouge River.

Ont., Farrans Point—Osnabruck Township plans concrete bridge. About $150,000.

Bids In and Contracts Awarded

N. H., Haverhill—Town let contract bridge over Connecticut River between Haverhill, N. H., and Newbury, Vt., to UNITED CONSTRUCTION CO., Albany, N. Y., $50,000. Noted July 6.

N. Y., Buffalo—City let contract reconstruction viaduct in Michigan Ave., Babcock St., Smith and Seneca St. to STROBEL CONSTRUCTION CO., 53 West Jackson St., Chicago, Ill., $382,000. Noted Nov. 2.

N. J., Bridgeton—City let contract bridge to C. PLATT. Noted May 4.

N. J., Jersey City—Bd. Comrs. let contract bridge over Morris Canal at foot of Yale St. to H. DELATUSH CO., 562 Newark Ave. Noted Oct. 12.

Bridges (Continued)

N. J., Trenton—Pennsylvania R.R. let contract bridge over Delaware & Raritan Canal, Bakers Basin, to L. LAWTON, Broad St. Bank Bldg., Trenton, about $30,000. Noted Aug. 31.

Penn., Windber—City let contract 2 rein.-con. bridges over Sees Run at Center St. to PEARSON & LARSON.

Ga., Atlanta—R. M. Walker, Atlanta, submitted low bid for Edgewood Ave. Bridge. About $19,490. Noted June 9.

Fla., Charlotte Harbor—Bd. County Comrs., Arcadia, let contract rein.-con. bridge across bay from Charlotte Harbor to Punta Gorda, to F. J. STAMM, St. Petersburg, $103,081.

Ky., Louisville—City let contract steel swing bridge over Louisville and Portland Canal to MILWAUKEE BRIDGE CO.

Ohio, Dayton—(Official)—Montgomery County Comrs. let contract bridges on New Troy Pike and Springfield Rd. to FARRELL & CRAMPTON, R. F. D. No. 5, Dayton, $8,353. Noted Nov. 2.

Ohio, Newark—W. M. McCam submitted low bid for Tish Bridge in Licking Township.

Ind., Independence—Buchanan County let contract rein.-con. bridge over Wapsinicon River to WIDELL & CO., Mankato, Minn., $38,000. Noted Sept. 28.

Mich., Detroit—Postum Cereal Co., Battle Creek, let contract steel foot bridge to WISCONSIN BRIDGE AND IRON CO., 1362 Penobscot Bldg., Detroit. About $8,000.

Mich., Lansing—State Highway Comn. let contract Bridge No. 72, La Salle Township, to E. C. NOLAN, Edenville.

Ill., Lincoln—Bd. Superv., Lincoln County, West Lincoln Township, let contract rein.-con. bridge over Kickapoo Creek to DETROIT BRIDGE CO., $4,865. Noted Oct. 19.

Iowa, Waverly—Bremer County let contract superstructure Harmon St. Bridge to ILLINOIS STEEL CO., Jacksonville, Ill., $18,750.

Minn., Duluth—St. Louis County let contract bridge over Cloquet River to MINNEAPOLIS BRIDGE CO., 606 Metropolitan Life Bldg., Minneapolis, about $9,595.

Kan., Anthony—Harper County let contract bridge near Anthony and Bluff City to REEBE CONSTRUCTION CO., $15,000. Noted Oct. 26.

Mo., St. Louis—Wabash Railroad Co. let contract rein.-con. viaduct on St. Charles Rock Rd. to GINDELE CONSTRUCTION CO., 3333 South La Salle St., Chicago, Ill.

Tex., Ft. Worth—City let contract Allen Ave. Viaduct to B. F. & C. M. DAVIS CO., $40,143. Noted Oct. 5 and Nov. 2.

Okla., Enid—Garfield County let contract 7 bridges to MONARCH ENGINEERING CO., Fall City, Neb., $8,200.

Okla., Lawron—Comanche County let contract for several bridges to MIDLAND BRIDGE CO., Kansas City, Mo. Noted May 18.

Okla., Miami—Ottawa County Comrs. let contract bridge over Tar River, at Tar River, to M. STIPEL.

Okla., Pawnee—Pawnee County Comrs. let contract for bridges to CANTON BRIDGE CO., Canton.

Okla., Sulphur—City let contract bridge across Washita River to MIDLAND BRIDGE CO., Kansas City, Mo.

N. M., Santa Rosa—Guadalupe County let contract 2 steel bridges, 1 across Truchers Creek at Ft. Sumner and 1 across Pecos Creek at Delia, to EL PASO BRIDGE AND IRON CO., Southwestern Bldg., El Paso, Tex. Noted Oct. 12.

Calif., San Francisco—City let contract 6th St. Bridge to HEALY-TIBBITTS CONSTRUCTION CO., Main and Market St., San Francisco.

WATER-WORKS

Proposed Work

Mass., North Abington—Town plans improving water system and installing electric pump.

R. I., Providence—City made plans for diverting north branch Pawtuxet River at Kent from present course, and constructing water gate, preliminary to building dam for Scituate Reservoir. Noted Jan. 20.

Conn., Waterbury—City plans water main in Huntingdon Ave. About $48,000. C. McDonald, Supt.

N. Y., Auburn—(Official)—City voted to install filter plant. About $20,000. J. W. Ackerman, Supt. Noted Aug. 31.

N. Y., Dodgeville—City plans reservoir. N. H. Bacon, Supt.

N. Y., Ft. Ann—City soon receives bids for water system. About $25,000. Noted Oct. 5.

N. J., Stewartsville—Lopatcong Water Co. plans extending water system.

Penn., Fleetwood—City plans to vote in November on $4,000 water bonds.

Penn., Reading—State Dept. Health approved plans of Angelica Water and Ice Co. for temporary treatment of water system with chemical germicide.

S. C., Conway—City receiving bids Nov. 25 for sale of $30,000 water and sewer bonds. Noted July 13.

Ga., Jonesboro—Council approved resolution for reservoir. W. S. Archer, Mayor.

Miss., Sumrall—City receives bids in December for 50,000-gal. reservoir. About $10,000 or $15,000. J. I. Brueck, City Clk. Noted Oct. 2.

La., Kenner—City plans water system and electric-light plant. A. Kramer, Magnolia, Miss., Engr.

La., Vinton—(Official)—City soon votes on $20,000 bonds for water system. T. H. Mandel, Lake Charles, Town Engr.

Ky., Winchester—(Official)—City receiving bids some time in January for water system. About $180,000. E. B. Kay, 305 Colonial Bldg., Winchester, Consult. Engr. Noted Nov. 9.

Ohio, Cambridge—Council plans expenditure of $25,000 for water system.

Ohio, Canal Winchester—City to vote Nov. 21 on $18,000 bonds for improving water system. W. M. Lane, Mayor. Noted Nov. 9.

Ohio, Greenville—Council passed ordinance to issue $85,000 bonds for well system. J. P. Lucas, Supt.

Ohio, Hamilton—See item under "Light, Heat and Power."

Ohio, Lima—Bd. Control receiving bids Dec. 12 for reservoir, filter plant and pumping station. J. Askins, Supt. Noted June 8.

Ohio, Springfield—Bd. Hospital Trustees receiving bids Nov. 24 for filter plant at City Hospital. W. H. Mahoney, Clk. G. S. Cotter, Supt.

Ohio, Wadsworth—City to vote on $25,000 bonds for filter plant. F. J. Porter, Supt. Noted Sept. 21.

Ohio, Winchester—City soon to let contract for concrete reservoir and pump house. B. M. Herbst, Village Clk. Noted Oct. 26.

Ohio, Zanesville—City rejected bids for water system. New bids soon to be received. Noted Oct. 26.

Mich., Ann Arbor—City soon votes on $75,000 bonds for extending water system. R. Spokes, Supt. Noted Nov. 2.

Mich., Detroit—Bd. Water Comrs. receiving bids Dec. 12 for two 37,000,000-gal. vertical, triple-expansion, crank and flywheel pumping engines. H. A. Gilmartin, Secy.

Mich., Mt. Clemens—City defeated $12,000 water bonds. A. Kells, Supt.

Mich., Otsego—City receiving bids Nov. 20 for improving water system. About $30,000. W. G. Conlan, Clk. Noted Nov. 2.

Ill., Wilmington—Bd. Local Impvts. soon receives bids for extending water system. About $34,000.

Iowa, Lake Mills—City making plans for water mains and reservoir. Noted Oct. 26.

Iowa, Moxwell—City plans voting on $15,000 bonds for improving water system. W. J. Cure, Supt.

Iowa, Stuart—(Official)—City sold $25,000 water bonds. Noted Oct. 26.

Minn., Duluth—City plans extending water and gas mains in portion of Superior and Elleen St. D. C. Keefe, Supt.

Minn., St. Paul—(Official)—City receiving bids Nov. 27 for c.-i. pipe, specials, sluice gates, gate valves and steel reinforcing high-service reservoir. About $400,000. G. O. House, Gen. Supt. Noted Nov. 2.

Minn., Winsted—City plans water system.

Kan., Buffalo—City voted $15,000 water-works bonds.

Kan., Manchester—(Official)—City defeated $23,000 water bonds. Noted Oct. 26.

Kan., Munden—City to vote Dec. 1 on water system. W. H. Stenad, City Clk. Noted Nov. 9.

Neb., Scotts Bluff—City to vote Dec. 4 on $32,000 bonds for improving water system. O. M. Finley, Supt.

S. D., Milbank—(Official)—City defeated $25,000 bonds for filter plant. Noted Nov. 2.

N. D., Fairmount—City plans water system. L. N. Abbott, Mayor.

Mont., Big Sandy—Ctly votes Jan. 8 on $29,300 bonds for water system.

Mo., Neosho—Water Bd. soon lets contract for about 4,000 or 5,000 ft. 4- and 6-in. c.-i. pipe. W. Oliver, Chn.

Tex., Karnes City—City Comn. plans election to vote on bonds for water system.

Tex., Post City—Post City Water Co. recently incorporated with capital stock of $170,000 plans water system. L. J. Montgomery, stockholder.

Tex., Wellington—Council soon lets contract for water system. About $27,000. Noted Aug. 31.

Okla., Beggs—City voted $42,000 water-works bonds. McIntosh-Walton Co., Oklahoma, Engr. Noted Oct. 12.

Okla., Enid—City defeated $50,000 water bonds. F. W. Brooks, Supt. Noted Oct. 12.

Okla., Lindsey—City plans voting on $6,000 water bonds. A. W. Simpson, Supt.

Okla., Stroud—City receiving bids Nov. 27 for 75,000-gal. elevated tank. Benham Engineering Co., Colcord Bldg., Engr. Noted Oct. 19.

Colo., Granada—(Official)—City voted $25,000 water bonds. W. R. Waldo, City Clk. Noted Nov. 2.

Colo., La Salle—City plans to vote on $20,000 bonds for water system.

Idaho, Payette—City voted bonds for water system. E. A. Chany, Supt.

Idaho, Lewiston—City receiving bids Nov. 20 for 2 turbine pumps. E. G. Wagner, Supt.

Idaho, Sandpoint—City plans election to vote on water bonds. Noted Apr. 6.

Idaho, Twin Falls—City soon receives bids for water system. About $300,000. Louis S. Kelsey, Selling Bldg., Portland, Ore., Engr. Noted Nov. 9.

Wash., Seattle—Council voted to sell $60,000 water bonds for standpipe of 1,000,000-gal. capacity at Maplecleaf Reservoir, pumping station at Green Lake Reservoir, with pipe line connecting standpipe and pumping station. L. B. Youngs, Supt.

Ore., Astoria—City votes in December on $125,000 bonds for reservoir.

Ore., Hermiston—City soon votes on $8,000 bonds for improving water system.

Ore., McMinnville—(Official)—City voted $90,000 water bonds. Noted Nov. 9.

Ore., Portland—Council plans to spend about $21,000 for improving water-works and $60,000 to purchase site at West Side for reservoir. L. S. Kaiser, Supt. Noted Mar. 2.

Ore., Portland—North Coast Power Co. plans to improve water system. About $50,000.

Calif., Hayward—Bd. Trustees plans water system.

Calif., Reading—City making plans for water system.

Calif., Rio Vista—City plans to vote on $10,000 water bonds. R. L. Upham, Supt.

Calif., San Rafael—Marin Municipal Water Dist. receiving bids Nov. 21 for tunnel under Pine Mountain. About $500,000. Noted Nov. 9.

Ont., Cornwall—(Official)—City receiving bids about Nov. 20 for addition to pumping station. About $20,000. Charles Lount, Supt. Noted Nov. 2.

Ont., Hamilton—City soon receives bids for water system. About $300,000. J. Baier, Supt. Noted Oct. 12.

Ont., Strathroy—Provincial Health Dept. authorized installation of chlorination plant. F. W. Atkinson, Town Clk.

Man., Winnipeg—Greater Winnipeg Water Dist. Comrs. receiving bids Nov. 27 for 200,000 bbl. portland cement in connection with water system. R. D. Waugh, Chn. Noted July 13.

Man., Winnipeg—(Official)—Greater Winnipeg Water Dist. Comrs. receiving bids Dec. 18 for 9.5 mi. of 5-ft. 6-in. rein.-con. pressure pipe. R. D. Waugh, Chn. Noted July 13. (See adv.)

B. C., Penticton—City plans election in January to vote on $15,000 by-law for water system. W. H. Murfitt, Supt.

Bids In and Contracts Awarded

Mass., Worcester—(Official)—City to install filter plant on Wiser Ave. by day labor. Noted Nov. 9.

N. Y., New York—(Manhattan)—Borough received low bids for 12-in. steel or w.-i. water main and appurtenances on Queensboro Bridge, also hauling and laying connecting c.-i. mains in Boroughs of Manhattan and Queens, from T. Crimmins Construction Co., 440 East 60th St., $33,166; Lupfer & Rennick, Buffalo, $35,068; Beaver Engineering and Construction Co., 51 Chambers St., $35,498. Noted Nov. 2.

Penn., Erie—(Official)—Hammermill Paper Co. let contract venturi meter for filter plant to BUILDERS IRON FOUNDRY, Providence, R. I.

Ohio, Alliance—(Official)—City let contract water meters to GAMON METER CO., Alliance. Noted Oct. 5.

Ohio, Ironton—City let contract filter plant to NEW YORK CONTINENTAL JEWEL FILTRATION CO., 15 Broad St., New York.

Ohio, Ironton—City let contract pumping station and intake wells to BESIDERRO & SATTLER, Rochester, N. Y., $65,000. Noted Sept. 7.

Ohio, Marietta—(Official)—City to extend water mains by day labor. W. M. Morse, Supt. Noted Nov. 9.

Mich., Lansing—(Official)—Bd. Water and Electric Light Comrs. let contract 2 concrete reservoirs to ARMSTRONG ENGINEERING CO., Taylorville, Ill., $75,683. Noted Oct. 19 and Nov. 9.

Neb., Omaha—Metropolitan Water Dist. to extend water mains by day labor. R. B. Howell, Mgr.

Neb., Pender—(Official)—City let contract extending water mains to P. KRUSE, Spencer, Iowa, $5,500. Noted Nov. 9.

S. D., Hitchcock—City let contract 2,270 ft. 4-in. water mains and 3,445 ft. 8- to 15-in. storm water drains to SCHRUTH & JACKSON, Sioux City, Iowa, $4,556. Noted Oct. 5.

Mo., Rockport—City received low bid for improving water system from H. G. Readecker, Rosedale, Kan., $9,050.

Calif., San Francisco—Bd. Pub. Wks. let contract pipe for Hetch Hetchy water system to WESTERN PIPE AND STEEL CO., $7,558.

Ont., Hespeler—Council let contract extending water system to J. McDONNELL, Gadshill. Noted July 20.

Ont., Toronto—Bd. Control let contract 10c lengths 20-in. c.-i. pipe to NATIONAL IRON WORKS, LTD., Cherry St., $5,820 per length.

SEWERS

Proposed Work

Conn., Stratford—(Official)—Town retained Clyde Potts, Engr., 30 Church St., New York, to make plans for 60-mi. sewers and disposal plant. About $450,000.

N. Y., New York—(Manhattan)—M. M. Marks, Boro. Pres., Room 2032 Municipal Bldg., receiving bids Nov. 24 for sewers and receiving basins in portions of Transverse Rd., Spruce, 48th, Thompson and East 76th St., and Park Row and Centre St.

N. Y., Rochester—Council voted sewers in Keller, Ohio, Kansas St. and Blossom Rd. About $32,800. F. S. Elwood, City Engr.

N. J., Bayhead—Borough making plans for sewer system. About $61,000.

N. J., Newark—Bd. Pub. Wks. will build 54-in. concrete sewer in Delvan Ave., also install 10-, 12- and 18-in. pipe in Elwood Ave., Seabury St. and Peabody Pl. M. R. Sherrerd, City Engr.

Penn., Albion—City soon votes on $30,000 bonds for sewage works. Noted June 22.

Penn., Clifton Heights—City voted $70,000 bonds for sewer system and improving streets. Noted Sept. 28.

Penn., Westfield—City making plans for sewer system. About $58,000. W. C. Emigh, Engr.

Penn., Youngsville—City plans sewage plant. C. C. Hyde, North East, Engr.

Md., Hagerstown—City receiving bids Nov. 20 for sewer system. J. B. Ferguson, City Engr. John Carmichael, Chn. Sewer Com. Noted May 25.

W. Va., Wellsburg—City making plans for sewer system. About $85,000. Noted Sept. 14.

S. C., Conway—See item under "Water-Works."

Ohio, Barberton—City plans disposal plant. About $150,000. R. W. Pratt, Hippodrome Bldg., Cleveland, Engr.

Ohio, Bellefontaine—Council passed ordinance for sanitary sewer in Staunton Ave. C. A. Inskeep, City Engr.

Ohio, Canton—City passed ordinance for sanitary sewer in portion Bedford Ave., N. W. C. A. Stolberg, Mayor.

Ohio, Cincinnati—City passed ordinance for sewers in portions Burr, Oak St. and Alpine Pl. F. Krug, City Engr.

Ohio, Cincinnati—Council passed ordinance for sewers in Highland Ave., Corporation Alley, Cumber and Liberty St. About $14,330. F. Krug, City Engr.

Ohio, Cleveland—City receiving bids Nov. 23 for extending sewer in portion Pratt St. R. Hoffman, City Engr.

Ohio, Elyria—Council passed ordinance for sanitary sewer in portion Broad St. C. M. Thebold, City Engr.

Ohio, Fremont—Council plans sewer in Everett St. C. A. Hochenedel, City Engr

Ohio, Lima—(Official)—City defeated $500,000 bonds for improving storm sewers. C. Bryson, City Engr. Noted Oct. 5.

Ohio, Miamisburg—(Official)—City defeated $100,000 bonds for sanitary sewers. Noted Nov. 2.

Ohio, Niles—Council voted to install sewers in Federal, West, Bond and Evans St. H. W. Turner, City Engr.

Ohio, Norwood—Bd. Pub. Ser. receiving bids Nov. 20 for sewer in portion Serpentine Ave. H. D. Armstrong, Clk.

Ohio, Tiffin—Council passed ordinance for sanitary sewer in Grace St. W. H Keppel, Mayor.

Ohio, Youngstown—Council passed ordinance for sewer in portion Campbell St. F. M. Lillie, City Engr.

Ind., Gary—Bd. Pub. Wks. making plans for sewer system. W. J. Fulton, Engr.

Mich., Kalamazoo—(Official)—City defeated $225,000 bonds for storm sewers. A. Lenderink, City Engr. Noted Oct. 26.

Ill., Chicago—(Official)—Sanitary Dist. of Chicago receiving bids Nov. 23 for furnishing, fabricating and delivering metal work for supports for an elevated spur track at Lawrence Ave. Sewage Pumping Station, Lawrence Ave. near Broadway. J. McGillen, Clk. (See adv.)

Ill., Clinton—City to issue $20,000 sewer bonds. W. Lemon, City Engr.

Wis., Hartford—City making plans for sewer system.

Iowa, Creston—City plans improving sewer system. T. S De Lay, City Engr.

Iowa, Fayette—City receiving bids Nov. 21 for sewer system. About $17,500. G. H. Bishop, City Hall, Engr. Noted Nov. 2.

Iowa, Rockwell City—Town Council making plans for disposal plant. F. E. Burnham, Town Clk. Noted Nov. 2.

Minn., Ada—City retained L. P. Wolff, Engr., 1001 Germania Life Bldg., St. Paul, to make plans for storm sewers and disposal plant. About $25,000.

Kan., Hanover—(Official)—City receiving bids in December for sewer system. Black & Veatch, Inter-State Bldg., Kansas City, Mo., Engr. Noted Nov. 2.

Kan., Hutchinson—City soon to let contract for storm sewer. About $100,000. G. L. McLane, City Engr. Noted Oct. 26.

Kan., Parsons—City making plans for storm sewer. About $30,000. F. M. Harr, Engr.

Kan., Pittsburg—City receiving bids Nov. 25 for storm sewers. About $10,000. L. E. Curfman, City Engr.

Neb., Grand Island—City plans extending sewer system. About $250,000. H. W. Kibley, City Engr.

Neb., Randolph—City defeated $5,000 sewer bonds. Noted Sept 21.

Neb., Red Cloud—City receiving bids Nov. 24 for sewer system. About $20,000. Grant & Fulton, Banker's Life Bldg., Lincoln, Engr. Noted Nov. 2.

Mont., Hinsdale—City plans sewer system. About $10,000.

Mo., Carl Junction—City voted $20,000 sewer bonds. A. C. Moore, Frisco Bldg., Joplin, Engr.

Tex., Post City—Post City Sanitarium Corporation plans sewer system. T. Herd, interested.

Okla., Beggs—Citizens voted $18,000 sewer bonds. McIntosh-Walton Co., Oklahoma, Engr.

Okla., Cordell—City soon receives bids for sewer system. About $70,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Aug. 31.

Okla., Oklahoma—City making plans for sewer system. About $200,000. G. V McClure, Engr.

Okla., Sand Springs—City soon receives bids for storm sewer. About $30,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Sept. 7.

Ont., Hamilton—City made plans for Southwest Sewer System. Bids soon. About $14,000. E. V. Gray, Engr.

Bids In and Contracts Awarded

Conn., Hartford—Bd. Contract and Supply let contract 1,995 ft. 66-in. and 73½-in. sewer in Olds Pl. and South St. to F. A BARENE, 16 Winchester St., Hartford, $48,715. Noted Nov. 9.

N. Y., East View—Westchester County let contract disposal plant at East View to F. N. LEWIS, 411 Manhattan St., New York, $5,850.

N. Y., Fulton—City rejected bids for storm sewers. C. Milton Allen, Jr., City Clk. Noted Aug 17.

N. J., Union—(Official)—Union Township let contract for sewers and disposal plant to JANNEROM CONTRACTING CO., 225 Passaic Ave., Belleville. Noted Oct. 19.

Ala., Birmingham—City Comn. let contracts 20,855 lin.ft. 8-in. T. C. pipe, 4- to 16-ft. sanitary sewers in Enon Ridge, and 4,530 lin.ft. brick storm sewers to SULLIVAN, LONG & HAGGERTY, Bessemer, $12,602 and $20,120 respectively, and sanitary sewers on south side to J. J. GODDARD, Birmingham, $15,333.

Ohio, Coshocton—City rejected bids for 36-in. sewer in Mulberry and Orange St. A. Fisher, City Engr.

Ohio, Homerville—City let contract sewers to G. A. GESSNER CO., $40,836.

Ohio, Port Clinton—City let contract Washington St. Sewer to C. L. WRIGHT, 105 East Broad St., Cuyahoga Falls, $14,038. Noted Nov. 2.

Ohio, Youngstown—(Official)—City let contract sewers in portion Hillman St. to C. C. HARRIS, La Clede and Oak Hill Ave., Youngstown, $10,258. Noted Oct. 19.

Mich., Lansing—City let contract Lyons Ave. sewer to J. BRAY.

Ill., Cairo—City let contract improving Commercial Ave. sewer to F. W. KELLER, Cape Girardeau, Mo., $20,192.

Ill., Evanston—Bd. Pub. Wks. let contract sewer in Greenleaf St. to C. T. BARTLETT CO., Evanston, $56,719. Noted Nov. 2.

Ill., Springfield—Council let contract sewers in portions Sangamon, 16th and 17th St. to H. NELCH & SON.

Iowa, Davenport—City let contract extending Marquette and Warren St. sewers to D. E. KEELER CO., Davenport. Noted Oct. 26.

Iowa, Davenport—City let contract storm sewers in High and Myrtle St. to D. E. KEELER CO., Davenport, $77,471.

Iowa, Emmetsburg—(Official)—City let contract storm sewers to ZITTERELL & SULLIVAN, Webster City, $4,430. Noted Nov. 2.

Minn., Brainerd—(Official)—City let contract lateral sewers in Dists. Nos. 1, 4, 5 and 8 to ILLSTRUP & OLLSEN, Minneapolis, $4,560. Noted Oct. 26.

Minn., Dawson—City let contract sewer system to THORNTON BROS. CO., Scandanavian American Bank Bldg., St. Paul, $56,000. Noted Nov. 9.

Kan., Parsons—City let contract storm sewer tunnel for Insane Asylum to J. M. LEEPER, Topeka. About $5,000.

N. D., Fargo—City let contract 12-in. sewer in portion 11th St to HAGGART CONSTRUCTION CO., $1.25 per lin.ft.

Mont., Big Timber—(Official)—City let contract sewer system to G. NORDQUIST, Great Falls, $38,750. Noted Nov. 2.

Mo., Kansas City—City let contract sewers in Dist. No. 316 to HOOVER BROS., 1220 East 18th St., Kansas City, $4,575.

Mo., Kansas City—City let contract sewers in Dist. No. 443 to HALPIN & BOYLE, 709 Railway Exchange Bldg., $7,582.

Mo., Sedalia—(Official)—City let contract disposal plant and improving sewers to J. W. MENEFEE, Sedalia, $58,824. Noted Oct. 26.

Calif., Los Angeles—City let contract sewer in Florence Ave. to J. RADICH, $112,306. Noted Nov. 9.

GARBAGE

Proposed Work

Penn., Reading—Council receiving bids Nov. 22 for garbage disposal plant. C. Marks, City Clk. Noted Oct. 12.

Bids In and Contracts Awarded

Ohio, Canton—Council let contract disposal of garbage for period of 10 years to CANTON FERTILIZER CO. Noted Oct. 12.

STREETS AND ROADS

Proposed Work

Mass., Amesbury—City plans to repave Main St N. E. Collins, City Engr.

Mass., Holyoke—Bd. Pub. Wks. plans to pave portion Pine St., concrete. T. J. McCarthy, City Engr.

Mass., Methuen—Massachusetts Highway Comn., Room 212 State House, Boston, receiving bids Nov. 21 for section state highway in Methuen.

Mass., Quincy—City plans to widen School St. P. F. O'Brien, City Engr.

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., Room 2, Boro. Hall, receiving bids Nov. 24 for improving portions East 34th, Powell, West 15th and 79th St., asphalt.

N. J., Bayonne—Bd. Comrs. plans to pave West 16th St., asphalt. W. L. Clarkson, City Engr.

N. J., Bound Brook—Borough sold $29,000 bonds for paving Shunpike and Talmage Ave., brick.

N. J., Flemington—Bd. Freeholders Hunterdon County plans to improve Stockton-Frenchtown Rd. Address County Clk., Flemington.

N. J., Hackettstown—Citizens voted $5,000 for street improvements.

N. J., Hawthorne—Bd. Comrs. plans $20,000 bond issue for improving 17 streets. J. A. Shea, Boro. Clk.

N. J., Newton—Sussex County voted $12,000 bonds for concrete road on Spring St. Address County Clk., Newton. Noted Sept. 21.

N. J., South Orange—Town plans to pave Wellesley St., macadam. E. R. Arcularius, Clk.

Penn., Erie—City plans to pave portions Liberty, Reed and 25th St., 6 mi. in 5th Ward and West 26th St., cost to be borne by Buffalo & Lake Erie Traction Co., also extend State St. F. G. Lynch, City Engr.

Penn., Mt. Penn—Borough voted $15,000 street improvement bonds. G. C. Hartline, Secy. Noted Oct 26.

Penn., Philadelphia—Council plans to pave Germantown and Chelton Ave., granite block. C. Albright, City Engr.

Penn., Radnor—Town plans $100,000 bond issue for road work.

Penn., Scranton—Council plans to improve portion Pennsylvania Ave., asphalt. About $33,922. W. Schunk, City Engr.

Penn., Wilkes-Barre—Luzerne County making plans for road from Laurel Run to Ashley Blvd. Smith & Welles, Coal Exchange Bldg., Engr.

Penn., York—City plans to pave about 16,110 yd., pine blocks, next summer. C. F. Wallow, City Engr.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Nov. 21 for Contract No. Wi-10, Wicomico County, 1 section road from Powellville, concrete or oil macadam, about 3 mi. toward Willards; Contract No. Wo-15, Worcester County, 1 section road from Snow Hill about 2½ mi. toward Girdletree. F. H. Zouck, Chn. (See adv.)

Md., Baltimore—City voted $2,000,000 bonds for street improvements in Annex and $1,000,000 for improvements in old city limits. Former amount to be spent under supervision of Comrs. for Opening Streets and Annex Com. R. M. Cooksey, City Engr. Noted Oct. 5.

Md., Baltimore—City receiving bids Nov. 22 for improving alleys, Contract A-3. R. M. Cooksey, Engr.

Va., Clarendon—Alexandria County Comrs. plan to spend $118,615 for roads in Washington Dist., also road paralleling tracks of Washington-Virginia Ry., Mt. Vernon Rd. with $20,000 state-aid, Glebe Rd., about $78,657, and Vacation Lane Rd. G. H. Rucker, Clarendon, County Clk.

Va., Richmond—City soon receives bids for graveling roadbed of portion 44th St. C. E. Bolling, City Engr.

W. Va., Grafton—(Official)—Taylor County defeated $100,000 bonds for roads from Grafton to Knottsville and Fetterman Dist., about 19 mi. Noted Oct. 26.

W. Va., Landisburg—Fayette County making surveys for 34 mi. roads. Address County Clk., Fayetteville.

W. Va., Winfield—Putnam County, Poco Dist., receives bids in spring for about 8 mi. brick or macadam road. About $90,000 available. J. M. Henson, Winfield, Clk. Noted Nov. 9.

Streets and Roads (Continued)

N. C., Salisbury—City receiving bids Nov. 20 for paving streets Dist. No. 2, concrete, asphalt or bitulithic. J. W. Webb, City Engr.

Ga., Augusta—City plans to pave Central Ave. About $18,000. Nisbet Wingfield, City Engr.

Ga., Louisville—(Official)—Jefferson County did not vote $52,000 road bonds. Noted Nov. 2.

Fla., DeLand—City receiving bids Dec. 1 for 31,653 sq.yd. brick paving and 38,592 lin.ft. cement curbing. J. B. McCrary Co., Atlanta, Ga., Engr.

Fla., Tampa—Hillsborough County, Wimauma Dist., defeated $22,500 bonds for road from Wimauma south to county line and bridge over Little Manatee River. Address County Clk., Tampa. Noted Oct. 12.

Ala., Birmingham—G. H. Clark, Highway Engr. Jefferson County, submitted report estimating cost improving 5,100-ft. Oxmoor Shannon Mines Rd., eliminating grade crossing near Oxmoor Furnace of Tennessee Co. and Oxmoor Dept. of Louisville & Nashville R.R. at $18,815.

Ala., Eutaw—Green County receiving bids Dec. 4 for grading and draining State Trunk Rd. No. 7. W. S. Keller, Montgomery, State Highway Engr.

Miss., Aberdeen—Monroe County plans to issue bonds to improve roads in Dist. No. 2. G. G. Ray, Aberdeen, Clk. Bd. Supervs.

Miss., Canton—Madison County sold $126,000 road improvement bonds. D. C. McCool, Canton, County Clk.

Miss., Ellisville—Jones County voted $200,000 road bonds. Address County Clk., Ellisville. Noted Oct. 26.

Miss., Waynesboro—Wayne County soon votes on $25,000 road improvement bonds. Address County Clk., Waynesboro.

La., Crowley—Acadia Parish plans election to vote on $600,000 road bonds. D. W. Thibodaux, Crowley, Secy. Police Jury. Noted Nov. 9.

La., Marksville—Avoyelles Parish Rd and Drainage Dist. No. 4, voted $300,000 bonds for reconstructing road from Bonte du Bayou Swamp to Bayou Chotaw, about 12 mi. Address Police Jury, Marksville.

Ky., Cadiz—Trigg County sold $90,000 road bonds. Address County Clk., Cadiz. Noted June 29.

Ky., Owensboro—Davies County Fiscal Court receiving bids Nov. 24 for Letchfield Rd.

Ky., Paducah—(Official)—McCracken County voted $200,000 road bonds. Address County Clk., Paducah. Noted Nov. 2.

Ky., Pineville—Bell County voted $105,000 road bonds. Address County Clk., Pineville. Noted Sept. 28.

Ky., Stanton—Fiscal Court Powell County to sell $40,000 road bonds Nov. 22. I. S. Boone, Stanton, County Clk. Noted Apr. 27.

Ohio, Attica—Village to sell $15,000 bonds Nov. 27 for improving portions Columbus-Sandusky Rd. F. R. Stutzman, Clk.

Ohio, Cambridge—City plans to spend about $75,000 or $100,000, for brick paving. J. M. Dilley, City Engr.

Ohio, Canton—City plans to pave Shorb Ave. W. E. Sarver, City Engr.

Ohio, Cleveland—City voted $3,000,000 paving bonds. R. Hoffman, City Engr. Noted Oct. 5.

Ohio, Cleveland—Council passed ordinance to pave Cromwell and Buckingham St., to widen and pave portion Denison Ave. and to grade Harvard Ave. Robert Hoffman, City Engr.

Ohio, Cleveland—(Official)—City receives bids some time in spring for repaving and widening Cedar Ave., block stone or wood block, about $127,600. R. Hoffman, City Engr. Noted Nov. 2.

Ohio, Cleveland Heights—(Warrensville post office)—Town receiving bids Dec. 18 for paving 13 streets. H. H. Canfield, Clk. F. A. Pease Engineering Co., 804 Marshall Bldg., Cleveland, Engr.

Ohio, Dover—Council plans to pave portion West 6th St. G. E. Arnold, City Engr.

Ohio, Dover—Tuscarawas County plans to pave 1½ mi. Strusburg-Bolliver Rd. Address County Clk., New Philadelphia.

Ohio, Greenville—(Official)—City does not plan to pave, curb and gutter Vine St. Noted Nov. 2.

Ohio, Lorain—(Official)—City receives bids about March for paving 13th St., brick or asphalt. About $14,300. C. M. Osborn, City Engr. Noted Nov. 2.

Ohio, Massilion—(Official)—City defeated $90,890 street improvement bonds. Noted Nov. 2.

Ohio, Painesville—Lake County making surveys for about 7 mi. brick paving on North Ridge Rd., $75,000; also plans 4 mi. brick paving on Lost Nation Rd. G. P. Cummings, Court House, Engr.

Ohio, Portsmouth—Council receiving bids Nov. 18 for improving portion Dexter Ave., brick. P. G. Harper, City Engr. Noted Nov. 9.

Ohio, Sidney—City receiving bids Jan. 1 for paving 6 mi. streets. T. Blake, City Engr. Noted Nov. 2.

Ohio, Tiffin—City plans to issue $36,500 bonds for improving Apple, East Perry and Douglas St. L. O. Runkle, City Engr.

Ohio, Willoughby—City plans to pave portion Elm St., brick. C. Clerk, Engr.

Ohio, Youngstown—City plans to pave East Market St. F. M. Lillie, City Engr.

Ind., Angola—Steuben and De Kalb Counties, Angola, receiving bids Dec. 5 for county line road. F. C. Dewey, Angola, Audr. Noted Sept. 14.

Ind., Clinton—City receives bids in December for 6,851 sq.yd. brick paving and 4,761 lin.ft. concrete curb and gutter. About $18,000. W. Lemoa, City Engr. Noted Nov. 2.

Ind., Newport—Vermillion County receiving bids Dec. 4 for gravel road in Helt Township. Roy Slater, Newport, Audr.

Ind., Rensselaer—Jasper County receiving bids Dec. 5 for stone road in Union Township. J. P. Hammond, Rensselaer, Audr.

Ind., Rensselaer—Jasper County receiving bids Dec. 5 for road in Keener Township. J. P. Hammond, Rensselaer, Audr.

Ind., Terre Haute—Vigo County receiving bids Nov. 25 for gravel road in Harrison and Honey Creek Townships. T. Ferguson, Terre Haute, Audr.

Mich., Marquette—Marquette County plans to spend about $94,000 for road and bridge work during 1917. Address County Clk., Marquette.

Mich., Petoskey—Emmet County plans to spend about $53,348 for road work in Petoskey Dist., Cross Village Pike and Mackinaw Pike Nos. 2, 5, 6 and 7. Address County Clk., Petoskey.

Mich., Traverse City—Grand Traverse County appropriated $38,157 for road work next year. Address County Clk., Traverse City.

Ill., Forest Park—Bd. Local Impvts. receiving bids Nov. 21 for improving portion South Desplaines Ave., brick. R. E. Williams, 118 North La Salle St., Chicago, Engr. Noted Aug. 17.

Ill., Highland Park—City making plans for 600-ft. concrete surfacing in Chicago Ave. and about 15,000 sq.yd. concrete paving, including curbing and guttering in Cedar Ave. Dist. E. E. Russell, Engr.

Ill., Moline—City plans to lay 15 mi. cement sidewalks. L. Payton, City Engr.

Ill., Winnetka—Village made plans for paving South East Dist. About $200,000. Windes & Marsh, Engr.

Wis., Janesville—(Official)—Bd. Pub. Wks. received no bids curbing and guttering 8" streets. C. V. Kerch, City Engr. Noted Oct. 19.

Wis., Ladysmith—City plans to pave portion Miner Ave. in spring. E. R. Kirvan, City Clk.

Iowa, Carroll—City plans to pave 15 blocks. G. C Belter, City Engr.

Iowa, Grundy Center—Bd. Pub. Wks. receives bids sometime in January for 37,639 sq.yd. paving, asphalt, concrete or brick and concrete curb. About $80,000. E. A. Crary, Grundy Center, Engr. Noted Sept. 14.

Iowa, Marshalltown—City soon receives bids for paving portions 4th, 5th and Hughes St. W. H. Steiner, City Engr.

Minn., Center City—Chisago County plans to improve 31¼ mi. Twin Cities-Duluth Highway by state, Federal and private aid. Comrs. plan to have $105,750 available by next summer. Address County Clk., Center City.

Kan., Ft. Scott—Bourbon County plans to improve 9 mi. Fulton Rd., 7½ mi. Walkertown Rd. and 11½ mi. Pawnee Rd. E. E. Toles, Court House, Engr.

Kan., Girard—Crawford County making plans for improving 25 or 30 mi. Jefferson Highway. Address County Clk., Girard.

Kan., Pittsburgh—City to receive bids in spring for 1¼ mi. paving on Elm St. L. E. Curfman, City Engr.

Neb., Falls City—City receiving bids Nov. 30 for paving portion Stone St., Dist. No. 17. About $5,055. F. Smith, City Clk. Noted Oct. 26.

Neb., Kearney—City plans to pave streets in 13th and 17th Dists. E. H. Morey, City Engr.

Neb., Lincoln—Lancaster County voted $500,000 road bonds. H. E. Wells, Lincoln, County Clk. Noted Nov. 2.

Ark., Clarksville—Johnson County plans to organize district to spend about $200,000 for road work. Address County Clk., Clarksville.

Ark., Eureka Springs—Rd. Dist. No. 1, Carroll County, soon receives bids for $70,000 worth road work. W. C. Ross, Eureka Springs, Engr.

Ark., Ft. Smith—Paving Dist. No. 5 plans to issue $100,000 road bonds next spring. M. H. Reed, City Engr.

Ark., Lake Village—State Highway Dept., Little Rock, made preliminary plans for road from Louisiana line to Dermot and Desha County line. About $259,368. H. R. Carter, Little Rock, State Highway Engr.

Tex., Bandera—Bandera County voted $22,000 bonds for roads in Dist. No. 2. Address County Clk., Bandera.

Tex., Brady—McCulloch County made plans for 2 roads on Puget Sound to Gulf Highway in Melvin and Boca Dist. About $46,000. Address County Clk., Brady.

Tex., Cameron—Milam County voted $15,000 road bonds for Dist. No. 7. Address County Clk., Cameron. Noted Oct. 5.

Tex., Center—Shelby County plans to issue $120,000 road bonds. Address County Clk., Center.

Tex., Dallas—Dallas County voted $500,000 bonds for concreting roads in overflow districts. Address County Clk., Dallas. Noted Oct. 11.

Tex., Dallas—City plans to pave portion Henderson, Birmingham and Terry St., natural lake asphalt. H. Moseley, City Engr.

Tex., Georgetown—City plans to pave public square and several other streets. About $25,000.

Tex., McKinney—Collins County voted $450,000 road bonds McKinney Dist., $125,000 Celina Dist., $90,000 Princeton Dist. and $200,000 Farmersville Dist. Address County Clk., McKinney.

Tex., Sherman—Grayson County soon lets contract for road work in Hagerman Dist. About $10,000.

Tex., Taylor—City sold $50,000 paving bonds. W. E. Dozier, City Engr. Noted June 29.

Okla., Beaver—Beaver County plans to vote on bonds for roads in Liberal Township. Address County Clk., Beaver.

Okla., Drumright—(Official)—City receiving bids Nov. 20 for 34,500 sq.yd. brick paving, 10,000 lin.ft. curb, etc. J. Fogale, City Clk. (See adv.)

Okla., Fairview—Major County plans 6 mi. road work. Plans approved by M. R. Cunningham, Engr. State Highway Comn., Oklahoma. Address County Clk., Fairview.

Okla., Hollis—Harman County plans to vote on $15,000 road bonds. Address County Clk., Hollis.

Okla., Oklahoma—Oklahoma County, Council Grove Township, election about Jan. 1 to vote on $50,000 road bonds. Address County Clk., Oklahoma.

Okla., Talihina—Le Flore County, Buffalo Township, voted $10,000 road bonds. Address County Clk., Poteau. Noted Apr. 6.

Wash., Camas—City receiving bids Nov. 28 for improving portion 4th St. About $15,431. C. E. Farr, City Clk.

Wash., Colfax—Whitman County receiving bids Nov. 20 for graveling 3¼ mi. Permanent Highway No. 13. A. R. Metz, Colfax, Audr.

Wash., Everett—Snohomish County plans to spend about $1,194,000 for road work next year. M. Weatherbee, Everett, County Audr.

Wash., Goldendale—Klickitat County plans to spend $21,416 for permanent highways, $15,000 for bridges and roads and $52,205 for road district work next year. W. Ward, Goldendale, County Engr.

Wash., Kalama—Cowlitz County plans to spend $117,000 for road and bridge work next year. R. C. Westwick, Kalama, County Engr.

Wash., Mt. Vernon—Pasco County plans to spend about $15,000 for permanent highways, $11,398 for road and bridge work and $20,608 for road district work durnig 1917. J. W. Hamilton, Mt. Vernon, County Engr.

Wash., Mt. Vernon—(Official)—City receives bids about Mar. 1 for curbing and paving portion 4th St., concrete, about $18,934. E. Crookston, City Clk. Noted Oct. 26.

Wash., Mt. Vernon—City plans to pave Cleveland Ave. to city limits, concrete walks in portion Gates St., curbs and walks in 3d St. and Highland Ave. and improving 4th St., concrete. L. Caufield, City Engr.

Wash., Pomeroy—Garfield County plans to spend about $16,000 for permanent highways, $11,398 for road and bridge work and $61,120 for road district work next year. W. Rigsby, Pomeroy, County Engr.

Wash., Prosser—Benton County plans to spend $18,715 for permanent highways, $40,084 for road and bridge work and $50,845 for road district work during 1917. T. J. Wright, Prosser, County Engr.

Wash., Seattle—A. H. Dimock, City Engr., estimates cost grading, curbing and concrete walks on 31st Ave., N. E., at $29,816.

Wash., Spokane—Comrs. Spokane County, State Officials of Idaho and Blanchard Township Officials plan scenic highway from Spokane and peak of Mt. Spokane to Blanchard and Spirit Lake, Idaho. Address County Clk., Spokane.

Wash., Spokane—Spokane County plans permanent highway from Cheney to Spangle. J. W. Strack, Spokane, County Engr.

Wash., Spokane—Spokane County plans 10½ mi. macadam highway from Dishmon to Freeman, about $50,000. J. W. Strack, Spokane, County Engr.

Wash., Stevenson—Skamanea County plans to spend about $7,932 for permanent highways, $21,000 for road and bridge work and $20,608 for road district work next year. H. Buecbe, Stevenson, County Engr.

Wash., Waterville—Douglas County plans to spend $17,392 for permanent highways, $24,527 for bridges and roads and $30,000 for road district work next year. R. F. Foster, Waterville, County Engr.

Ore., Astoria—City soon lets contract for paving portion Franklin Ave. and other streets and macadamizing and cement walks on Duane St. G. T. McClean, City Engr. Noted Aug. 10.

Ore., Grants Pass—Josephine County plans highway between Grants Pass, Ore., and Crescent City, Calif. Address County Clk., Grants Pass.

Calif., Delano—City plans to pave several miles streets.

Calif., Los Angeles—City soon lets contracts for improving Hillhurst Ave. and 5th and Agatha St. H. Hamlin, City Engr.

Streets and Roads (Continued)

Calif., San Francisco—M. M. O'Shaughnessy, City Engr., estimates cost of proposed highway, boulevard and road projects at $30,000,000.

Ont., London—City plans paving portion Adelaide St., asphalt, about $29,975. S. Baker, City Clk.

Ont., Petrolia—Town plans cement sidewalks on Main St. J. McHattie, Clk.

Ont., Ridgetown—Council plans cement sidewalks on Church St. D. Cochrane, Clk.

Ont., Toronto—City plans macadam roadway on Merton St., about $5,500.

Bids In and Contracts Awarded

Maine, Bangor—City let contract wood block pavement and bridge repairs to J. GRADY & SON, Bangor.

Mass., Lawrence—City let contract paving to GOFF & WELLS CONSTRUCTION CO., Lawrence, about $30,000.

Mass., Revere—State Highway Comn., Boston, let contract section highway in Revere to A. G. TOMASELLI, 69 Gibson St., Dorchester, about $55,848.

Conn., New London—State Highway Comn. let contract about 30,000 sq.ft. concrete sidewalk to J. FOWLER, 181 Ocean Ave.

N. Y., Mt. Morris—Livingston County let contract road between Groveland and West Sparta to ATLANTIC CONSTRUCTION CO., Atlanta, about $34,856.

N. Y., New Rochelle—Dept. Pub. Wks. let contract paving to WILKES-CASEY ENGINEERING AND CONSTRUCTION CO., 12 Lawton St., about $8,620.

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., received low bids paving portions streets with asphalt (a) Caton Ave., (b) Bay 19th St., (c) East 12th St., (d) Thatford Ave., (e) 23rd St., (f) 81st St., (g) trap rock, (h) trap rock screenings, as follows: Cranford Bros., 52 9th St, (a) $2,394; (b) $6,982, (e) $7,165; Uvalde Asphalt Paving Co., (c) $4,985; Borough Asphalt Co., 1301 Metropolitan Ave., (d) $4,367; Brooklyn Asphalt Co., 407 Hamilton Ave., (f) $5,737; New York Trap Rock Co., 17 Battery Pl., Manhattan, (g) $1.78 cu.yd., (h) $1.78 cu.yd. Noted Nov. 2.

N. Y., New York—(Manhattan)—M. M. Marks, Boro. Pres., received low bid paving with granite block portions 181st St. from Asphalt Construction Co., Madison Ave. and 137th St., $10,833. Noted Nov. 2.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract repaving south road Williamsburg Bridge to M. J. O'HARA, 577 3rd St., Brooklyn, $32,841. Noted Oct. 5.

N. Y., New York—(Manhattan)—(Official)—Borough let contract paving portions Seaman Ave. and 218th St. to UVALDE ASPHALT PAVING CO., 1 Broadway, about $9,219 and $4,677 respectively. Noted Oct. 26.

N. Y., New York—(Queens)—(Official)—Borough received low bids paving from Sicilian Asphalt Paving Co., 41 Park Row, Manhattan, $8,644, 4th St.; C. A. Myers Contracting Co., Stagg St., $8,205, DeKalb Ave., $11,160, Nott Ave. Noted Nov. 2.

N. J., Audubon—Borough let contract paving to F. FRIES CO., Haddon Heights, about $200,000.

N. J., Bayonne—City let contract paving Evergreen St. to W. T. S. CRITCHFIELD, Hoboken, about $17,635. Noted Nov. 9.

N. J., Glen Ridge—Borough let contract paving Ridgewood Ave. to OSBORNE & MARCELLIS, Montclair, about $54,890. Noted Sept. 14.

N. J., Mt. Holly—Burlington County let contract 1½-mi. road to NEWTON PAVING CO., Broad St. Bank Bldg., Trenton, about $20,000.

N. J., Newark—City received low bid paving portion High St. from A. J. Milmoe, 85 Littleton Ave., about $19,065. Noted Sept. 21.

N. J., Newark—City received low bid paving Mapes Ave. from Standard Bitulithic Co., Essex Bldg., about $9,316. Noted Sept. 7.

N. J., Newark—City received low bid paving portion Shephard Ave. from Standard Bitulithic Co., Essex Bldg., about $9,328. Noted Oct. 5.

Penn., Coatesville—(Official)—Council received bids for 5,450-ft. road around shores Rock Run Reservoir from C. H. Dunleavy and B. G. Coon Construction Co. Noted Nov. 2.

Penn., Dickson City—City let contract 15,000 sq.yd. brick paving, 9,000 lin.ft. concrete curb and 30 catch basins to SWEENEY BROS., Miller Bldg., Scranton, about $50,000.

Penn., Nanticoke—City let contract paving, Middle, Locust and Espy St. to C. REES, 317 East Noble St.

Penn., Philadelphia—City let contract grading, sidewalks, railings, etc., in Clarkson Park to F. MARK CONSTRUCTION CO., 2820 North 21st St., about $20,000.

Penn., South Brownsville—Village let contract paving Prospect St. to PATRELLO BROS., about $8,000.

Penn., Union City—City let contract paving Union Township to J. McCORMICK & BRO., Erie, about $6,000.

Penn., West Chester—Chester County let contract road in New Garden Township from Toughkenmon to Delaware to D. E. O'CONNELL & SONS, London Grove, about $9,337. Noted Oct. 26.

Del., Wilmington—(Official)—State Highway Comn. received low bid resurfacing portion Concord Turnpike from Standard Bitulithic Co., care of M. Howe, Ford Bldg., about $33,000. Noted Oct. 19.

Md., Baltimore—(Official)—Bd. Awards let contract Rd. No. 4, Loch Raven, Contract No. 44, Water Dept., to CAROZZA & CHRISTHILF, about $37,139. Noted Oct. 12.

Md., Baltimore—City let contract grading Gwynn's Falls Parkway, 65,000 cu.yd. to T. F. MULLAN, 4001 Greenmount Ave., Baltimore, $18,512.

Va., Norfolk—Seventh Ward Local Bd. let contract 35,000 sq.yd. cement sidewalks to J. U. ADDENBROOKS SON, 307 Arcade Bldg., Norfolk. About $25,000 available.

W. Va., Huntington—City let contract paving portion 11th St., brick, to G. HENKLE.

W. Va., Pennsboro—(Official)—City let contract paving 1½ mi. streets to WINSTON & CO., American National Bank Bldg., Richmond. Noted Oct. 5.

Ga., Atlanta—(Official)—Fulton County let contract 12,000 yd. paving on Virginia Ave., 10,000 sq.yd. on 10th St. and 16,000 yd. gutter to T. D. MEADOR, JR., Atlanta, about $45,000. Noted Oct. 19.

Ala., Birmingham—City Comn. let contract paving portion 11th Ave. to DUNN CONSTRUCTION CO., Chamber of Commerce Bldg., about $8,200. Noted Sept. 28.

Ala., Birmingham—City Comn. let contract paving portion Tuscaloosa Ave. to DUNN CONSTRUCTION CO., Chamber of Commerce Bldg., about $34,300. Noted Oct. 5.

Ala., Birmingham—City let contract paving portion 6th Ave., S., to DUNN CONSTRUCTION CO., Chamber of Commerce Bldg., about $102,480.

Miss., Decatur—Newton County Comrs. let contract grading Mississippi Travelers Highway to FLOYD LOPER, Lake, 2 mi., and L. B. DENNIS, Lawrence, 1 mi.

Tenn., Nashville—City let contract paving Broadway Viaduct to THOMPSON & GRAHAM.

Ky., Owensboro—Daviess County let contract paving West 21st St., Berry, Livermore and River Rd. to MONTGOMERY & PERKINS CO., Dallas, $50,167. Noted Oct. 5.

Ohio, Cincinnati—(Official)—Hamilton County received low bid improving North Bend Rd. from THURBER & BROWNING CO., 4312 Spring Grove Ave., $60,691. Noted Nov. 2.

Ohio, Cincinnati—(Official)—Hamilton County received low bid paving Cameron Rd., concrete, from P. Praechter, 2935 Gerard Ave., $44,232. Noted Nov. 2.

Ohio, Cincinnati—City let contract improving portion Ohio Ave. to GRADISON CONSTRUCTION CO., 244 Melish Ave. Noted Oct. 5.

Ohio, Columbus—City let contract paving alley north Oakland Ave. from Pearl St. to alley west Indianaola Ave. to B. F. PATTERSON, 1214 Neil Ave., Linden Heights, about $6,632.

Ohio, Columbus—State Highway Comn. received bids for 21 mi. highway various counties from: Clinton County, Sect. "B," Wilmington-Xenia Rd., steel bridge, Champion Bridge Co., Wilmington, $1,998; Clinton County, Sect. "A," Wilmington-Hillsboro Rd., macadam, 5.02 mi., Bean & Co., Highland, $20,949; Fairfield County, Sect. "E," Logan-Lancaster Rd., bridges, culverts and grading roadway, 0.59 mi., Wilson & Beckler, Lancaster, $5,639, O. G. Shafer, Caldwell, $5,539; Franklin County, Sect. "F," Columbus-Lancaster Rd., repairing and extending culverts, grading and shaping roadway and resurfacing with bituminous macadam, 1.32 mi., Jones & Gannon, Columbus, $13,717, J. C. McCann & C. E. McCann, Columbus, $13,717, T. Vogelsburg, London, $13,663; alternative bids for solid natural lake asphalt, J. C. McCann & C. E. McCann, Columbus, $14,338, T. Vogelsburg, London, $14,289, J. M. Snouffer, Columbus, $14,338; Putnam County, Sect. "F," Ottawa-Findlay Rd., bridges and culverts, grading and paving with waterbound macadam, 1.65 mi., J. W. McDowell, Ottawa, Ohio, $10,002, J. W. Carey, Ada, $10,412, O. L. Smith, Leipsic, $10,275; Seneca County, Sect. "M," Findaly-Tiffin Rd., macadam, 2.59 mi., Souder & Peters, Fostoria, $15,200, O. H. Baum, Upper Sandusky, $14,750, National Lime and Stone Co., Carey, $14,100.

Ohio, Greenville—Dark County let contract paving portion Greenville-Union City Rd. to STUDEBAKER & SON, about $8,809.

Ohio, Hamilton—City let contract paving portion Park and Elvin Ave. to A. WERTZ TRANSFER CO., Frechtling Bldg., about $8,200.

Ohio, New Lexington—Perry and Fairfield Counties let contract improving about 17 mi. road to GILMORE BROS., about $104,750. Noted Oct. 19.

Ohio, Westerville—(Official)—City let contract paving portion West Broadway and Knox St. to W. E. SCHWARTZ, Shepherd, $9,600. Noted Oct. 26.

Ohio, Youngstown—(Official)—City let contract paving portion Cassius Ave. to V. OLSON CONSTRUCTION CO., Mahoning National Bank Bldg., about $12,433. Noted Oct. 19.

Ohio, Youngstown—(Official)—City let contract paving portion Erie St. to V. OLSON CONSTRUCTION CO., Mahoning National Bank Bldg., about $11,708. Noted Oct. 19.

Ind., Indianapolis—City let contract paving Cornelius Ave. to REPUBLIC CONSTRUCTION CO., 31st St., about $4,029.

Ind., New Albany—Floyd County let contract improving Spickert Knob Rd. No. 2 to W. O. SWEENEY & CO., Jeffersonville, about $12,997.

Ind., Rensselaer—City let contract improving Austin and Washington Ave. and South 2nd Grove St. to A. S. Keene, Wheatfield, about $7,825.

Ind., Rensselaer—(Official)—Jasper County let contract roads in Jordan and Marion Townships to F. A. CAMBLIN, Morocco, about $12,998. Noted Oct. 19.

Ind., Shelbyville—(Official)—Shelby County let contract gravel roads in Moral Township to SEXTON & BOLTS, Shelbyville, about $12,216. Noted Oct. 19.

Ind., Terre Haute—Vigo County let contract improving 3 mi. Fruitage Ave. to CAMPBELL & HAWKINS, Brazil, about $20,847.

Mich., Battle Creek—County let contract 2½-mi. road to McDERMOTT & COOPER, 325 Willicomb Bldg., about $9,611.

Ill., Ancona—Livingston County let contract paving to A. L. BOOTH, Gardner, about $13,602.

Ill., Sterling—City let contract road work Genesee Vicinity to HESS & WILSON, Sterling, about $25,000.

Wis., Elkhorn—City let contract paving to WESTERN IMPROVEMENT CO., Racine, about $60,000. Noted Oct. 12.

Minn., Vesta—Redwood County let contract grading 5½ mi. road to J. C. CORCORAN.

Kan., Hutchinson—City let contract paving 14th, 15th and 16th St. to STAMEY-MACKEY CONSTRUCTION CO., about $25,000. Noted Nov. 2.

Kan., Lawrence—City let contract improving portion Illinois St. to SPAHR & LOIT.

Neb., Grand Island—(Official)—City let contract paving Dist. No. 20 to TYNOR CONSTRUCTION CO., 1201 Spruce St., Kansas City, Mo. Noted Sept. 28.

Neb., Lincoln—City let contract paving Dist. No. 365 to ABLE CONSTRUCTION CO., about $7,529.

Neb., Lincoln—City let contract paving Dist. No. 374 to MARTIN CONSTRUCTION CO., about $53,204.

Neb., Omaha—City let contract grading portion 20th St. to CARROLL CONSTRUCTION CO. $0.26½ per yd.

Neb., Omaha—Douglas County let contract paving portion of West Center St. to E. GEIGER CONSTRUCTION CO., Leavenworth, Kan. Noted Nov. 2.

S. D., Yankton—Yankton County let contract about 8 mi. grading including grubbing and cleaning to G. A. SIEMBACK.

Mo., Kansas City—City let contracts grading as follows: 35th St., to SPITCAUFSKY BROS. 27th and Main St., 43.5c. cu.yd.; 77th St., to M. HAASE, 2615 Oak St, 22.8c.; 39th St., to W. C. MULLINS, 1230 Montgall St., 16c.; Highland St. to J. TREHEY, 71st and Brooklyn St., 21c.; Belmont St., to HOOVER BROS., 1220 East 18th St., 10.75c.; 61st St., to A. H. PITTENGER, 5839 Troost Ave., 11.90c.

Ark., Texarkana—Bd. Impvt. Dist. No. 20 received bids for 100,000 sq.yd. paving from Burke Construction Co., Ft. Smith; Kaw Paving Co., Topeka; Standard Paving Co., San Antonio. E. F. Peterson, Engr. Noted Oct. 5.

Tex., Gainesville—City let contract paving Lindsay St. to CHEANEY BROS.

Tex., San Antonio—City let contract paving portion Travis St. to RUSHMORE & GOWDY.

Okla., Clinton—(Official)—City let contract paving business district to WESTERN PAVING CO., Oklahoma City, about $68,269. Noted Oct. 19.

Ariz., Tucson—City let contract improving several streets to WARREN BROS. CO., about $50,000.

Ariz., Tucson—City let contract grading streets to J. M. PACHECO & CO., about $5,804.

Wash., Ilwaco—A. Zindolph, Seattle, at $10,999, low bidder paving portion Main St.

Ore., Cornelius—(Official)—City rejected bids for improving Pine and 4th St. Improvement postponed indefinitely. Noted Oct. 26.

Calif., Daly City—City let contract improving streets in West End Homestead Dist. to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco, about $135,858.

Calif., Los Angeles—Los Angeles County let contract improving portion Mission Rd. to G. H. OSWALD, about $25,240.

Calif., Los Angeles—City let contract improving Gordon St. to G. H. OSWALD, $4,727.

Calif., Los Angeles—City let contract paving portion Normandie Ave. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., about $19,813.

Calif., Oakland—City let contract paving oil macadam and cement sidewalks portions of Bissell St. and 51st Ave. to HUTCHINSON CO., 13th and Franklin St., Oakland.

Streets and Roads (Continued)

Calif., Oakland—City let contract sidewalks on Seminary Ave. to J. CATUCCI, 1230 18th Ave., at 18c. per sq. ft.

Calif., Sacramento—City let contract improving portion 20th St. to J. LAWRENCE, Sacramento.

Calif., San Francisco—City let contracts improving portions streets as follows: Noriega St., asphalt, to J. G. HARNEY, 3619 18th St., $4,952; Ortega St., asphalt, to C. B. EATON, 407 11th St., $4,419; Moulton St., granite pavement, to T. A. CLARK, 68 Post St., $4,032.

Calif., San Francisco—City let contract improving portion Railroad Ave. to G. M. McGINN & CO., Phelan Bldg., about $44,547.

Calif., San Francisco—City let contract sidewalks on Polk St. to P. McDONALD, 145 Beaver St., at 13.75c. per sq.ft.

Calif., San Francisco—City let contract improving Corbett Ave. to FLINN & TREACY, 1st National Bank Bldg., $4,857.

Calif., San Francisco—City let contract sidewalks on Grove St. to A. O. FIELD, 1465 20th Ave., 13.75c. per sq.ft.

Calif., San Leandro—City let contract paving East 14th St. to JOHNSON-SHEA CO., Central Bank Bldg., Oakland, about $26,325. Noted Oct. 26.

Calif., Ventura—Ventura County received low bid paving bridges from C. Scherer, Stimson Bldg., Los Angeles, $4,481.

Ont., Sarnia—Council let contract sidewalks to GUTTERIDGE & GRACE, 109 College St.

Ont., Toronto—City let contract bitulithic pavement on Osler Ave. to WARREN BITUMINOUS PAVING CO. OF TORONTO, LTD., McKinnon Bldg., $11,089.

INDUSTRIAL WORKS

Proposed Work

Mass., Everett—General Electric Co. plans 115x200-ft. pattern shop.

Mass., Gardner—Simplex Time Recorder Co., Sanborn St., made plans for 3-story, 60x100-ft. concrete factory. About $30,000. R. E. Coolidge, Southbridge, Arch. Noted Oct. 19.

Mass., Lynn—General Electric Co. granted permit for 3 additions. Noted June 22.

Mass., Salem—A. J. Mulholland Co., Peabody, plans 5-story, 50x200-ft. leather factory.

Mass., Springfield—Cudahy Packing Co. granted permit for packing house at 209-11 South 3rd St. About $20,000.

Mass., Worcester—Washburn & Garfield Manufacturing Co., Commercial and North Foster St., made plans for store and light manufacturing building. About $60,000.

N. Y., Binghamton—W. E. Ogden & Co., Court and Jay St., made plans for 2-story factory. About $35,000. Noted May 4.

N. Y., New York—(Brooklyn)—(Official)—E. M. Pilzer, 438 Stone Ave., receiving bids for 1-story, 100x150-ft. brick garage, Watkins St. and Lott Ave. About $20,000. M. Whinston, 459 Stone Ave., Arch. Noted Nov. 9.

N. Y., New York—(Brooklyn)—(Official)—Gluck Bros., Maujer and Lorimer St., receiving bids for 3-story, 50.4x84-ft. brick factory. About $15,000. Freid & Holzman, Maujer and Lorimer St., Arch.

N. Y., New York—(Manhattan)—(Official)—W. D. Staright, 1130 5th Ave., receiving bids for 3-story, 25x100.8-ft. brick garage at 162 East 92nd St. About $30,000. Delano & Aldrich, 4 East 39th St., Arch.

N. J., Passaic—Botany Worsted Mills plans addition, about $250,000.

Penn., Beaver Falls—Pittsburgh Radium Co. purchased plant Great Western File Works, 12th St., and will rebuild and equip it for extraction vanadium, uranium and radium from carnotite ores.

Penn., Centerville—Supplee-Alderney Co., of Philadelphia, plans milk plant.

Penn., Easton—Imperial Castings Co. making plans for 1-story, 80x110-ft. brick foundry.

Penn., Philadelphia—Pottash Bros., 504 North American St., plans 2-story, 40x100-ft. factory, 600-12 North American St.

Penn., Philadelphia—Morris-Wheeler Realty Co. plans plant at 30th and Locust St. for Morris-Wheeler & Co., 16th and Market St.

Penn., Phillipsburg—Phillipsburg Clay Products Co. making plans for plant.

Penn., Pottstown—Vaughn Knitting Co. plans addition. About $10,000.

Penn., York—Atlantic Refining Co. plans warehouse.

Del., Dover—Security Storage Co. plans 5-story, 45x134-ft. warehouse. About $25,000.

Md., Baltimore—Maryland Chemical Co. purchased site at Columbia and Baltimore & Ohio Railroad Co. tracks for plant.

D. C., Washington—W. B. Austin granted permit for 5-story warehouse, 11th and King St. About $28,000.

N. C., Asheville—H. Rees Sons granted permit to rebuild tannery destroyed by fire. About $45,000. Noted Oct. 19.

N. C., Wilmington—Carolina Packing Co., recently organized with $100,000 capital stock, plans plant.

Ga., Dublin—Chamber of Commerce plans warehouse. About $50,000.

Ga., Tifton—W. W. Banks, Vice-Pres. Bank of Tifton, and associates, plans packing plant. About $100,000.

Fla., Jacksonville—Florida Cotton Seed Oil Mills plans to rebuild plant destroyed by fire with loss of $80,000.

Ala., Mobile—H. C. Nurman, Memphis, plans shipbuilding plant, about $75,000.

La., New Orleans—Stern Foundry and Machinery Co., 1630 Annunciation St., plans additions to plant. About $100,000.

La., New Orleans—Dixie Ice Manufacturing Co. plans to enlarge plant.

Tenn., Erwin—A. P. Villa & Bros., 95 Madison Ave., New York, plan silk mill, about $40,000.

Tenn., Johnson City—Johnson City Hosiery Mills, organized with $50,000 capital, plans plant.

Ohio, Canton—Canton Auto Parts Manufacturing Co., recently incorporated with $300,000 capital stock, plans 50x200-ft. factory. S. C. Kurtz, Vice-Pres., McCaskey Register Co., of Alliance, interested.

Ohio, Cincinnati—P. T Baker & Son plan 1-story, 75x250-ft. box manufacturing plant, Liberty St. and McLean Ave.

Ohio, Cincinnati—Nerpel Creamery, 222 West McMillan St., made plans for 1-story addition. A. Rieg, Arch.

Ohio, Cincinnati—Norwood Sash and Door Manufacturing Co., Ross and Section Ave., Norwood, plans 36x213-ft. warehouse. O. H. Bardon, 1222 Beech Ave., Arch.

Ohio, Cleveland—Barkwill-Farr Co. plans plant, Bradley Rd.

Ohio, Cleveland—Colburn Machine Tool Co., Franklin, Penn., plans plant at Cleveland. H. W. Breckenridge, Treas.

Ohio, Cleveland—Firestone Tire and Rubber Co., Akron, plans branch plant on Prospect Ave. About $100,000.

Ohio, Cleveland—Atlas Bolt and Screw Co. plans to spend about $350,000 for improvements.

Ohio, Cleveland—Cleveland Boulders Supply Co., Leader-News Bldg., made plans for warehouse, Denison Ave. About $10,000. Lehmann & Schmitt, 303 Electric Bldg., Arch. Noted July 20.

Ohio, Cleveland—Forbes Chocolate Co., recently organized with $75,000 capital stock, plans factory. C. I. Lee, Bank of Commerce, interested.

Ohio, Cleveland—New York Central R.R., Lines West of Buffalo, granted permit for brick shop on East 152d St. About $27,500. G. C. Cleveland, St. Clair Ave. and West 3d St., Ch. Engr.

Ohio, Columbus—Ohio Wax Paper Co plans plant on Parsons Ave., East Columbus.

Ohio, Dayton—Jones Heel Manufacturing Co. plans new factory.

Ohio, Dayton—Durfon Co. purchased 12 acres between Erie and Cleveland, Cincinnati, Chicago & St. Louis Ry. and plans factory. P. D. Schenck, Local Mgr.

Ohio, Dover—Dover Foundry Co. plans plant on West 3d St.

Ohio, Dover—Lewis Manufacturing Co., 155 West Washington St., Chicago, plans plant opposite Pennsylvania Station.

Ohio, Youngstown—Youngstown Sheet and Tube Co. plans to spend about $2,000,000 or $4,000,000 for additions to plant.

Ohio, Youngstown—Republic Rubber Co. granted permit for warehouse on Albert St. About $10,000. Noted Sept. 28.

Ind., Indianapolis—National Motor and Vehicle Corporation, recently incorporated with $5,000,000 capital stock, has taken over factory of National Automobile Co., 426 North Capitol Ave., and will build additions.

Ind., Kokomo—Hoosier Iron Works Co., recently organized with $200,000 capital stock, plans foundry on George Kingston Farm, east of tracks of Pennsylvania R.R. on North St. J. W. Johnson and C. T. Byrne, interested.

Ind., Monticello—Thread Mills Co. plans addition. About $40,000.

Mich., Detroit—Arctic Ice Cream Co., 507 Grand River Ave., granted permit for 2-story garage on Gibson St., about $21,000.

Mich., Detroit—J. A. Crowley Co., 1222 Ford Bldg., granted permit for 1-story factory on Mackie St. About $18,000.

Mich., Holland—Western Tool Works plans addition.

Mich., Howell—Howell Electric Motors Co. plans addition.

Mich., Manistee—Filer Fiber Co., recently organized with $300,000 capital stock, plans plant. J. W. Pettibone, Muskegon, Supt. Constr.

Ill., Alton—Laclede Steel Co. plans to enlarge plant.

Ill., Chicago—Centennial Laundry Co., 1411-13 West 12th St., granted permit for 3-story brick plant. About $12,000.

Ill., Chicago—Cohan Bros & Traub plan warehouse at 1144-46 West 15th St. About $40,000 or $50,000.

Ill., Chicago—J. P. Seeburg Piano Co. making plans for 4-story piano factory and 1-story power house, Belmont and Kilborun Ave. About $85,000 or $90,000. R. G. Pierce, Arch.

Ill., Chicago—Vortex Co., 420 Orleans St., purchased site at Western and Austin Ave. and will build 4-story factory.

Ill., Tuscola—Tuscola Creamery Co. plans 2-story brick building, South Central Ave. and South Washington St.

Ill., Waukegan—Chicago Recording Scale Co., Spring and Madison St., plans addition to plant.

Wis., De Forest—Sun Prairie Canning Co. plans factory. About $20,000.

Wis., Delavan—Bradley Knitting Mills, 905 Clinton St., making preliminary plans for 1-story, 48x150-ft. addition. Federal Engineering Co., 218 Stephenson Bldg., Milwaukee, Engr. Noted Aug. 10.

Wis., Eau Claire—Roswell-Hobbs Realty Co., South Farwell St., receives bids about Jan. 1 for 5-story, 40x120-ft. warehouse and office building.

Wis., Green Bay—Green Bay Cheese Co. plans 5-story, 50x100-ft. storehouse, about $60,000.

Wis., Madison—C F Burgess Laboratories made plans for 2-story, 50x100-ft. with wing 40x80-ft. building at 1011-13-15-17-19 East Washington Ave. H. Alford, Arch.

Wis., Milwaukee—Wrought Washer Manufacturing Co. plans warehouse, 54-56 South Bay St. About $50,000.

Wis., Park Falls—Flambeau Paper Co. making plans for plant. About $100,000 to $125,000. T. W. Orbison, Consult. Engr.

Wis., Racine—Racine Auto Tire Co. plans factory on North High St. About $100,000. L. J. Elliott, Vice-Pres.

Wis., Sheboygan—Black Cat Textile Co. plans 3-story, 40x160-ft. factory.

Wis., Stevens Point—J. J. Normington purchased site at Clark and South 3d St., for 2-story steam laundry. About $10,000.

Iowa, Cedar Rapids—Russell Motor Car Co. plans, 1-story, 70x140-ft., brick, about $25,000.

Iowa, Keokuk—Pechstein Iron Works will be reorganized with $25,000 capital stock and will build new plant.

Iowa, Sioux City—Campbell Bakery Co. plans plant in Sioux City. About $150,000. W. Campbell, Pres. and Gen. Mgr.

Iowa, Sioux City—Armour & Co. soon receives bids for 7-story plant, brick, steel and concrete. About $75,000. H. C. Carlson, Gen. Mgr. Noted Aug. 24.

Minn., Duluth—Diamond Calk Horseshoe Co., 4630 Grand Ave., plans plant. About $55,000. O. Swanstrom, Pres.

Minn., Duluth—Kelley-How-Thomson Co., South 5th, Ave., plans addition to plant. About $70,000. G. W. Wells, Secy. and Treas.

Minn., Mankato—Roebke Bakery, North Front St., making plans, 2-story, 60x156-ft. About $30,000. H. C. Gerlach, Menkato, Arch.

Minn., Minneapolis—Minneapolis Artificial Ice Co., 402-10 North Lyndale St., made plans for 2 icehouses. O. K. Westphal, 615 Northwestern Bldg., Arch.

Minn., Minneapolis—Minneapolis General Electric Co., 15 South 5th St., making plans addition to plant on 5th St. Bertrand & Chamberlin, Northwestern General Bank Bldg., Arch. Noted Mar. 16.

Kan., Atchison—Seaton Foundry Co. making plans, 1-story, 100x275-ft. foundry.

Kan., Lawrence—W. W. Pendleton making plans for factory. About $40,000. E. Skofstad, Arch.

Neb., McCook—McCook Electric Co. plans ice plant.

Neb., Ralston—Crown Tire and Rubber Co., recently incorporated with $250,000 capital stock, plans plant to consist of 6 buildings. H. A. Reichenbach, Omaha, interested.

N. D., Dickinson—Dickinson Ice and Transfer Co. plans plant.

Mont., Billings—Northwestern Auto Supply Co. plans 3-story warehouse. E. C. Guthard, Mgr.

Mont., Butte—Montana Dairy Co., South Montana St., plans to spend about $20,000 for additions.

Mo., Joplin—City plans ice plant. About $30,000. J. F. Lee, Comr. Pub. Utilities.

Mo., Kansas City—Nourse Oil Co. plans factory. About $100,000. J. Nourse, 1315 West 8th St., Mgr.

Mo., Moberly—Moberly Artificial Ice Co. making plans for ice and storage plant. About $75,000. Tait-Nordemeyer Engineering Co., 722 Chestnut St., St. Louis, Engr. Noted Aug. 17.

Mo., St. Louis—Bethlehem Steel Co., South Bethlehem, Penn., plans plant in St. Louis. C. M. Schwab, Pres.

Tex., El Paso—Empire Bottling Works making plans for 3-story, concrete factory. About $40,000. O. H. Thorman, Arch. Noted Nov. 9.

Tex., Gainesville—Cheaney Bros. plan brick garage. About $25,000.

N. M., Las Cruces—Holly Sugar Co., 506 Boston Bldg., Denver, plans sugar factory. About $1,000,000.

Idaho, Twin Falls—Watt Bros. plan laundry, 4th Ave. and 3rd St.

Utah, Salt Lake City—International Harvester Co. plans distributing plant. About $75,000 or $100,000.

Wash., Kalama—Standard Oil Co. plans warehouse.

Industrial Works (Continued)

Wash., Seattle—C. & F. Building Co. granted permit for 91x125-ft. bakery at 800 13th Ave. About $20,000.

Ore., Medford—Oregon-Utah Sugar Co. plans refinery. About $500,000.

Ore., Portland—W. Cornfoot, of Albina Engine and Machine Works, plans shipbuilding plant on water front north Albina Ave.

Ore., Portland—Gerlinger Motor Car Co., Tacoma, plans plant at Portland. About $22,000.

Ore., Salem—Log Cabin Baking Co. soon receives bids for brick bakery. About $25,000. F. Legg, Arch.

Ore., Willbridge—(Portland post office)—Pacific Coast Steel Co. plans factory at Willbridge.

Calif., Los Angeles—R. W. Pridham Co., box manufacturer, making plans for factory on North Alameda St. R. D. King, 519 Van Nuys Bldg., Arch.

Calif., San Francisco—American Ever Ready Co., 8th and Brannan St., making plans for 2-story, rein.-con. factory, about $350,000. M. C. Couchot, 110 Sutter St., Arch. Noted Aug. 3.

Calif., San Francisco—Hill Bros. making plans for 4-story, 137x137-ft. factory, Howard and Fremont St. About $100,000. F. Whitten, Mgr.

Que., St. Hyacinthe—J. E. Arpin plans to rebuild mattress factory destroyed by fire with loss of $22,000.

Ont., Ft. William—M. Sellers & Son, 408 Grain Exchange, plans elevator. About $130,000.

Ont., Niagara Falls—Canadian Aloxite Co. plans brick and rein.-con. addition. About $35,000.

Ont., Niagara Falls—Perfection Tire and Motor Co., 713 Marquette Bldg., Chicago, made plans for factory at Niagara Falls. About $90,000. Noted Oct. 12.

Man., Winnipeg—Manitoba Power, Pulp and Paper Co., Ltd., plans mill. About $2,000,000. D. B. McDonald, 530 Greenwood Pl., Gen. Mgr.

Bids In and Contracts Awarded

Maine, Auburn—T. A. Huston Co., North Main St., let contract 3-story addition to biscuit factory to J. A. GREENLEAF & SONS, Washington Ave. Noted Oct. 12.

Mass., Millbury—Windle Wool Scouring Co. let contract 2-story factory and 1-story power station near Boston & Albany Division tracks to E. D. WARD. About $70,000. Noted July 13.

Mass., Palmer—Wright Wire Co. let contract 3-story addition to E. D. WARD, Worcester.

Conn., Bridgeport—C. M. Cole, State St., let contract 8-story warehouse to S. AUSTIN & SON, Bridgeport. Noted Aug. 24.

Conn., Hartford—Hall-Thompson Co. let contract factory to P. SCONE, Hartford. About $20,000.

Conn., Middletown—New England Enameling Co. let contract factory to J. ANNIMO.

N. Y., Buffalo—Taylor & Grate Co. let contract industrial buildings to TURNER CONSTRUCTION CO., 11 Broadway, New York.

N. Y., Poughkeepsie—Moline Plow Co. let contract addition to plant to FLINT BUILDING AND CONSTRUCTION CO., Palmer, Mass. About $20,000.

N. Y., Rochester—American Can Co., Powers Bldg., let contract factory to TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo.

N. Y., Rochester—E. E. Sackett, 75 Exchange St., let contract garage at 139 Scio St., to CURRAN & SWARTOUT, about $35,000.

N. J., Millville—(Official)—Millville Manufacturing Co. let contract 247.6x340.6-ft. factory to ABERTHAW CONSTRUCTION CO., Boston.

Penn., Chester—G. H. Bonner Co. let contract addition to plant to BARCLAY, WHITE & CO., 1530 Chestnut St., Philadelphia.

Penn., Millvale—Independent Brewing Co. let contract addition to ROLLINGER BROS., Fulton Bldg., Pittsburgh. About $250,000. Noted Aug. 26.

Penn., Philadelphia—Belmont Packing Co. let contract 2-story factory at Butler and Janney St. to FREUND-SIENDENBACH CO., Bulletin Bldg., about $10,000. Noted May 4.

Penn., Pittsburgh—A. DeRoy Motor Car Co. let contract 4-story garage on Forbes St. to D. T. RIFFLE, Keenan Bldg. About $85,000. Noted Oct. 5.

Penn., Sharon—American Steel Foundries Co., Franklin, let contract addition to W. N. KRATZER & CO., 3212 Smallman St., Pittsburgh. Noted Sept. 7.

Penn., Sharon—Petroleum Iron Works Co. let contract addition to FT. PITT CO., Pittsburgh. Noted Aug. 10.

Md., Baltimore—Columbia Paper Bag Co., 921 East Fort Ave., let contract 2-story addition to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., Baltimore.

Md., Baltimore—Maryland Tube Co. let contract 1-story, 70x300-ft. factory, Hanover St. and Western Maryland Ry. to PRICE CONCRETE CONSTRUCTION CO., 225 St. Paul St., Baltimore.

Md., Highlandtown—Crown Cork and Seal Co., 1601-37 Guilford Ave., Baltimore, let contract machine shop to LONGACRE CONSTRUCTION CO., Widener Bldg., Philadelphia, about $285,000. Noted Nov. 9

Md., Sparrows Point—Bethlehem Steel Co., South Bethlehem, Penn., let contract blacksmith shop to SINGER-PENTZ CO., about $62,000. Noted Mar. 2.

Ohio, Cleveland—Armour & Co. let contract ice plant and warehouse on Eagle St. to BLOME-FINCH CO., Chicago.

Ohio, Cleveland—Cleveland Co-operative Stove Co., 2323 East 67th St., let contract factory to NATIONAL CONCRETE FIREPROOFING CO., 1315 Citizens Bldg., about $200,000. Noted Sept. 28.

Ohio, Cleveland—Virden Manufacturing Co., Ashland and Longfellow St., let contract 1-story, 75x130-ft. addition to C. N. GRIFFEN CONSTRUCTION CO., 3111 Carnegie Ave.

Ohio, East Hamilton—(Hamilton post office)—Simplex Machine Tool Co. let contract addition to plant to CULLEN & VAUGHN, about $7,500.

Ohio, Niles—Niles Tool Works let contract brass foundry on Mill St. to HAMILTON CONSTRUCTION CO., about $30,000.

Ohio, Springfield—S. E. Greenwalt let contract factory, Main and Center St., to CONCRETE STEEL CONSTRUCTION CO., about $150,000.

Ohio, Warren—Trumbull Steel Co. let contracts additions to RITER-CONLEY CO. and UNITED ENGINEERING AND FOUNDRY CO., Pittsburgh. About $3,750,000. Noted Sept. 28.

Ind., Indianapolis—Stutz Motor Car Co. of America let contract plant at Meridian and Pratt St. to HURD & DINSMORE. Noted July 13.

Mich., Detroit—Disco Electric Starter Corp. let contract 2-story, 78x185-ft. factory to H. A. JONES CONSTRUCTION CO.

Mich., Niles—Original Cabinet Co., Evanston, Ill., let contract factory at Niles to M. D. BAKER & SON and J. W. SNYDER.

Mich., St. Joseph—Auto Specialties Manufacturing Co., Joliet, Ill., let contract 2-story, 80x400-ft. factory on Edgewater Field to C. KINGSLEY, St. Joseph, about $25,000.

Mich., St. Joseph—Baker-Vawter Co. let contract 3 additions to M. W. STOCK, St. Joseph, about $55,000.

Ill., Chicago—Linden Laundry Co., Laramie Ave., N., let contract 2-story laundry to C. ANDERSON & CO., about $55,000.

Ill., Chicago—Hygienic Ice Co., 6515 South State St., let contract 1-story storage house to CHANEY-ARCHIBALD CO., 189 West Madison St., about $50,000.

Ill., Chicago—Cross, Roy & Saunders, 20 West 39th St., let contract 6-story storage house at 2035-43 West 39th St., to E. W. SPROUL & CO., 1120 West 35th St., about $200,000.

Ill., Chicago—Fitzpatrick Bros., 32nd St. and Benson Ave., let contract 4-story brick warehouse to STRESENREUTER BROS., 3020 South Halstead St. About $15,000.

Ill., Chicago—R. Glendinning, 49th St. and Oakley Ave., let contract 1-story factory to McKEOWN BROS., 4817 Cottage Grove Ave., about $25,000. Noted Nov. 25.

Ill., Kewanee—J. Deere Plow Co. let contract plant to C. E. HEAPS, Moline, about $125,000.

Ill., Metropolis—Wilson Stove Co. let contract factory to J. COLE and SHERRILL-RUSSELL LUMBER CO., Paducah. About $50,000.

Wis., Madison—Overland-Wisconsin Co. let contract 4-story garage and storage building to WEBER & GRAY. About $40,000. Noted Aug. 10.

Iowa, Cedar Rapids—T. M. Sinclair Co., Ltd., let contract 4-story warehouse to LOOMIS BROS., Kimball Bldg., about $65,000.

Iowa, Cedar Rapids—D. Starch Works let contract warehouse to LEONARD CONSTRUCTION CO., Chicago, about $100,000.

Neb., Omaha—McCague Investment Co., 15th and Dodge St., let contract 1-story, 80x120-ft. rein.-con. garage, 25th Ave. and Leavenworth St., to A. BECK, Keeline Bldg. About $20,000.

N. D., Dickinson—J. P. Berringer let contract cold-storage and ice plant to G. HEATON LUMBER CO., Dickinson.

Mont., Roundup—M. Blank let contract garage to KIEBURTZ & SMITH, Butte, about $20,000.

Mo., Carthage—Carthage Foundry and Machine Wks. let contract factory, Main and Limestone St., to A. J. LOVE, 1507 Virginia St., Joplin. About $15,000. Noted May 11.

Wash., Cheshaw—Cheshaw Grain Co. let contract elevator to SEATTLE ENGINEERING AND ELEVATOR CONSTRUCTION CO., White Bldg., Seattle, about $10,000.

Wash., North Yakima—Oregon-Utah Sugar Co. let contract plant to J. DYER & CO., about $500,000.

Que., Verdun—British Munition Co. let contract addition to ATLAS CONSTRUCTION CO., 37 Belmont St., Montreal

Ont., Toronto—Toronto Laundry Machine Co., Sorauren Ave. and Dundas St., let contract addition to BROWN & COOPER, 207 Carlton St.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Newport—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans for 3 contagious wards at Naval Hospital. About $18,000.

N. Y., New York—Dredging—U. S. Engr. Office, Army Bldg., New York, receiving bids Nov. 28, in Newtown Creek.

N. Y., New York—Paving—Bureau Yards and Docks, Navy Dept., receiving bids Nov. 20, wood block paving at Navy Yard, New York. Noted Oct. 26.

N. J., Bayonne—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., rejected bids. New bids. Noted Oct. 26.

Penn., DuBois—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., rejected bids. New bids. Noted Oct. 26.

Md., Indian Head—Fire System—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans, at Proving Ground. About $38,000.

D. C., Washington—Coast Guard Station—Treasury Dept., U. S. Coast Guard, Washington, receiving bids Dec. 4, on Siuslaw River, Ore.

D. C., Washington—Sewers—Dist. Comrs., Washington, receiving bids Nov. 21.

W. Va., Wheeling—Lockkeepers' House—U. S. Engr. Office, Wheeling, receiving bids Nov. 28, 2-story, at Dam No. 21, Ohio River.

N. C., Burlington—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, rejected bids. New bids. Noted Nov. 9.

S. C., Charleston—Building, Etc.—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans for radio building, masts and tower.

Fla., Pensacola—Water Filters—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans, at Naval Aeronautic Station.

La., New Orleans—Rock—Lighthouse Inspector, New Orleans, receiving bids Dec. 11 for furnishing and placing 3,000 tons around Sand Island Station, Ala. (See adv.)

Ill., Rock Island—Ice Plant—Commanding Officer, Rock Island Arsenal, receiving bids Nov. 21, 10-ton.

Kan., Junction City—Bridge—U. S. Government soon receives bids for bridges across Republican River.

Wash., Puget Sound—Transmission Line—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans.

Panama—Miscellaneous and Metal Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, receiving bids Nov. 24.

Panama—Colliers—Earl J. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 1, two 12,000 tons capacity.

Cuba, Guantanamo—Fuel Oil Plant—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans, Naval Station, Cuba.

Bids In and Contracts Awarded

Mass., Buzzards Bay—Removal of Wreck—U. S. Engr. Office, Newport, R. I., let contract, removal of wreck of "Yankee" in Buzzards Bay to MERRITT & CHAPMAN DERRICK AND WRECKING CO., 17 Battery Pl., New York, $11,890. Noted Oct. 12.

Mass., Chelsea—Seawall—Bureau Yards and Docks, Navy Dept., Washington, D. C., received bids, Naval Hospital, Chelsea, (a) net price rebuilding old seawall and building new seawall with drains, etc., (b) net price rebuilding old seawall and building new seawall southeast of pier, etc., per drawing A, (c) per drawing B, from H. J. Stabile and P. Caputo, 176 North St., Boston, (a) $22,500, (b) $13,785, (c) $18,500; J. F. Coleman, 1 Marginal St., Chelsea, (a) $22,000, (b) $13,500, (c) $18,500; Cape Ann Granite Corporation, 195 Cabot St., Beverly, (a) $17,425, (b) $10,930, (c) $15,300. Noted Oct. 19.

R. I., Melville—Torpedo Storehouse—Bureau of Yards and Docks received bids, Naval Coal Station, from Milliken Bros., New York, $13,665; Belmont Iron Works, Philadelphia, $16,750; Penn Bridge Co., Washington, $17,500. Noted Oct. 26.

R. I., Newport—Seawall—Bureau Yards and Docks, Navy Dept., received bids, Naval Torpedo Station, from Bay State Dredging and Contracting Co., Boston, Mass., $34,000; R. H. Beattie, Fall River, $26,571. Noted Oct. 26.

R. I., Providence—Dredging—U. S. Engr. Office, Newport, let contract, Providence Harbor, to J. S. PACKARD DREDGING CO., Providence, $285,592. Noted Nov. 2.

Conn., New London—Dredging—U. S. Engr. Office, New London, rejected bids, Pawtucket River, R. I. and Conn. Noted Oct. 12

Conn., New London—Dredging—U. S. Engr. Office, New London, let contract, New Haven, Norwalk and Stamford Harbors, to BOSTON DREDGING CO., New Haven, $22,196. Noted Oct. 26.

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., received bids, in connection with Navy Yard, from P. S. Ross, 227 Washington St., Jersey City, N. J., 39c. cu.yd; E. Breymann, 17 Battery Pl., New York, 35c. cu.yd; Coastwise Dredging Co., National Bank of Commerce Bldg., Norfolk, Va., 36.5c. cu.yd. Noted Nov. 2.

N. J., Woodbury—Post Office—Superv. Arch., Treasury Dept., Washington, received low bids from C. McCaul Co., Philadelphia, Penn., $57,670; Westchester Engineering Co., White Plains, N. Y., $59,900; E. F. Fonder, Philadelphia, Penn, $58,700. Noted Sept. 28.

D. C., Washington—Grading Streets—Dist. Comrs. let contract, Rhode Island Ave., N. E., to G. HYMAN, 32c. cu yd.; Todd Pl., N. E., HOOV-

Federal Government Work (Continued)

ER & HOOVER, 43.5c. cu.yd.; Franklin St., N. E., HARPER & VOGT CO., 17.5c. cu.yd.; Massachusetts Ave., N. W., E. G. GUMMEL, 23c. cu.yd. Noted Nov. 2.

D. C., Washington—Bridges—Dist. Comrs. received low bids (a) Design A, (b) Design B, 7-span on Banning Rd. over Philadelphia, Baltimore & Washington and Baltimore & Ohio Railroad Co., from A. L. Guidone & Son, 52 Vanderbilt Ave., New York, (a) $59,900, (b) $56,500; Snare & Triest Co., Woolworth Bldg., New York, (a) $64,600, (b) $59,300; Robert W. Smith Corporation, Washington, D. C., (a) $96,905, (b) $87,545. Noted Oct. 12.

D. C., Washington—Radio Masts—Bureau Yards and Docks, Navy Dept., Washington, D. C., received only bid, State War and Navy Building, J. Simmons Co., 104 Center St., New York, $11,780. Noted Nov. 2.

Va., Norfolk—Dry Dock—Bureau Yards and Docks, Navy Dept., let contract, at Navy Yard, Norfolk, to G. LEARY CONSTRUCTION CO., 17 State St., New York, $2,440,000. Noted Oct. 26.

Ala., Birmingham—Post Office—Treasury Dept. received bids for post office (prices quoted on different kinds of marble) from W. Dall Co., Cleveland, $761,000, $792,000, $858,000, $822,000; C. McCaul Co., Philadelphia, $783,100, $839,000, $763,000, $731,100, $777,100, $669,000; M. Yeager & Co., Minerva, $784,766, $794,766, $774,766; J. H. Parker & Co., New York, $813,000, $883,000, $713,000. Noted Sept. 28.

Miss., Vicksburg—Levee—U. S. Engr. Office let contract, 680,000-cu.yd., to ROACH & STARSELL, Memphis, Tenn., $155,237.

La., New Orleans—Levee Work—U. S. Engr. Office, Queen and Crescent Bldg., received low bids 498,000 cu.yd. earthwork Lafourche Levee Dist., as follows: (1) Willswood, (2) Upper Avondale, (3) Lower Avondale; (a) first method, (b) second method: D. B. Gore & Co., Inc., Metropolitan Bank Bldg., New Orleans, (1a) 12.49c., (2a) 12.49c., (3a) 12.49c.; Lower Coast Construction Co., 122 Chartress St., New Orleans, (1a) 11.97c., (b) 18.90c., (2a) 24c., (b) 40c.; Graser Contracting Co., 902 Hennen Bldg., New Orleans, (1a) 12.34c., (b) 29c. Noted Oct. 26.

Tenn., Nashville—Locks—U. S. Engr. Office, Nashville, received bids Sept. 28 for concrete locks (a) E and (b) F, Cumberland River, from G. C. Hodgson, 1168 Reibold Bldg., Dayton, Ohio, (a) $335,581, (b) $328,296; Mason & Hanger Co., Lexington, Ky., (a) $331,420, (b) $346,839. Noted Aug. 31.

Ky., Ashland—Building—U. S. Engr. Office, Cincinnati, Ohio, receiving bids 2 lock tenders' dwellings at Dam No. 29, Ohio River, near Ashland.

Ky., Louisville—Gate Operating Machinery—U. S. Engr. Office, Louisville, let contract, Lock No. 41, Ohio River, to C. HEGEWALD CO., New Albany, Ind., $10,320.

Ky., Louisville—Iron Castings—U. S. Engr. Office, let contract, Lock No. 41, Ohio River, to J. B. MILHOLLAND CO., 714 5th Ave., Pittsburgh, $12,384. Noted Oct. 19.

Ill., Chicago—Breakwater—U. S. Engr. Office, 508 Federal Bldg., Chicago, let contract to E. GILLEN DOCK, DREDGE AND CONSTRUCTION CO., Racine, Wis., $447,700. Noted Nov. 2.

Wash., Seattle—Dredging—U. S. Engr. Office, Seattle, received bids, Lake Washington Ship Canal, from Erickson Construction Co., Seattle, $109,825; Standard American Dredging Co., Oakland, Calif., $110,112. Noted Oct. 5.

Calif., Tiburon—Dredging—Bureau of Yards and Docks, Washington, received bids from Pacific Coast Dredging and Reclamation Co., San Francisco, 12.9c. per cu.yd.; R. A. Perry, Oakland, 18c.; M. C. Harris, San Francisco, 19c. Noted Oct. 26.

CANALS, DITCHES AND IRRIGATION

Proposed Work

La., Donaldsonville—Drainage—New River Drainage Dist. of Ascension Parish election Nov. 28 to vote on $40,000 bonds. L. Picard, Pres.

Ind., Portland—Drain—Jay County receiving bids Nov. 18. J. E. Daugherty, Supt. Constr.

Ind., Winchester—Ditch—Randolph County receiving bids Nov. 18. A. B. Purdy, Winchester, Comr.-in-charge.

Minn., Duluth—Ditch—St. Louis County receiving bids Nov. 20 for County Ditch No. 7, about $22,722. T. F. McGilray, Duluth, Engr. Noted Mar. 2.

Minn., Henderson—Ditch—Sibley and McLeod Counties, Henderson, receiving bids Nov. 27 for purchase of $5,000 bonds for Judicial Ditch No. 5. F. Hoppenstedt, Henderson, Audr.

Minn., Morris—Ditch—Stevens and Swift Counties, Morris, receiving bids Nov. 22 for Judicial Ditch No. 2, about $26,570. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids Nov. 22 for Judicial Ditch No. 3, about $11,590. C. R. Wollthan, Morris, Audr.

Minn., St. Paul—Ditch—Ramsey County receiving bids Nov. 24 for County Ditch No. 14, about $13,988. G. J. Reis, St. Paul, Audr.

Mo., Steffenville—Drainage—Steffenville Drainage Dist. plans to spend about $70,000 straightening South Fabius River.

Tex., Barstow—Irrigation—Ward County Irrigation Dist. No. 1 soon lets contract for irrigation canal and dam. About $50,000. J. J. Walker, Barstow, Pres. Noted Feb. 24.

Nev., Reno—Drainage—M. Hayes, Asst. State Engr., making plans for draining about 10,000 acres in Truckee Meadows.

Wash., Centralia—Irrigation—H. L. Eras interested in formation of irrigation district to serve 5,000 acres on Fords Prairie.

Wash., Sequin—Drainage—Happy Valley Irrigation Dist. voted $80,000 bonds for irrigating 14,000 acres. T. Watson, 410 Globe Blk., Engr. Noted Mar. 2.

Ore., Canyon City—Irrigation—Blue Mountain Ditch Co. plans to irrigate about 1,270 acres in Grant County.

Ore., Sams Valley—Irrigation—J. W. Dunlop, Medford, applied to State Engineer for permission to irrigate 16,000 acres in Sams Valley. About $200,000.

Calif., Dixon—Drainage—Hawley, Whitney & Loveland, Engr., submitted plan to State for irrigating about 55 acres southeast Dixon. Noted Jan. 6.

Calif., Siskiyou—Irrigation—Siskiyou County plans to irrigate about 10,000 acres. Address E. W. Pereira, Ft. Jones.

Calif., Willows—Irrigation—Jacinto and Princeton-Codora-Glenn Irrigation Dists. election Dec. 9 to vote on organization of districts. About $180,000 and $136,000 respectively. Address County Clk., Willows.

Bids In and Contracts Awarded

Mass., Boston—(South Boston)—Dredging—Comr. on Waterways and Pub. Lands, 40 Central St., let contract dredging about 4,500 cu.yd. to BAY STATE DREDGING AND CONTRACTING CO., 247 Atlantic Ave., about 47c. per cu.yd. Noted Nov. 2.

N. Y., New York—(Manhattan)—(Official)—Dredging—Bids received Sept. 15 dredging West 209th St. and Harlem River, Contract No. 1524, rejected. Noted Sept. 21.

Fla., Tallahassee—(Official)—Canal—Bd. Comrs. Everglades Drainage Dist. let contract drainage canal to JOHNSON & CO., West Palm Beach. Noted Sept. 28.

Ohio, Tiffin—Dredging—County let contract improving Rock Creek to J. JONES, Tiffin, about $28,274. Noted July 20.

Ind., Kendallville—Ditch—County let contract J. J. Eve Ditch, Cleveland township, to G. WOLF and BIPPUS DRAIN TILE CO., $4,900.

Ind., Plymouth—(Official)—Ditch—Marshall County rejected bids for Seraphine Schub Ditch. Noted Oct. 26

Ill., Eureka—Drainage—Rome View Drainage and Levee Dist., Woodford County, received low bid levee and drainage work from Caldwell Engineering Co., about $338,000.

Iowa, Algona—Ditch—Kossuth County let contract Ditch No. 139 to WELP CEMENT PRODUCTS CO., Bancroft.

Minn., Montevideo—Ditch—Chippewa County let contract Ditch No. 25 to E. THIEN, Clara City, about $4,950. Noted Nov. 2.

Minn., New Ulm—(Official)—Ditch—Brown County let contract Ditch No. 30 to F. AULDERHIDE, New Ulm, about $14,100. Noted Nov. 2.

Kan., Kansas City—(Official)—Drainage—Kaw Valley Drainage Dist. of Wyandotte County let contract about 42,230 cu.yd. embankment to A. A. LUCK CONSTRUCTION CO., 524 Rialto Bldg., 42c. per cu.yd. Noted Nov. 2.

Neb., Auburn—(Official)—Drainage—Nehama County, Drainage Dist. No. 3 let contract about 9 mi. channel to MUNN & REASE CONSTRUCTION CO., Kansas City, Mo., about $23,302. Noted Oct. 26.

Tex., Donna—(Official)—Drainage—Hildalgo County Drainage Dist. No. 1 let contract Sects. Nos. 1, 2 and 3 protection levee to CALHOUN & BROOKS, Pharr, about $74,000. Noted Oct. 26.

MISCELLANEOUS

Proposed Work

N. Y., Albany—Parks—State voted $10,000,000 bonds for increasing area of State Parks, namely Adirondack and Catskill Parks of Forest Preserve and Palisades Interstate Park, Proposition No. 1. Noted Nov. 2.

N. Y., New York—(Bronx)—(Official)—Tracks—Interborough Rapid Transit Co., 165 Broadway, Manhattan, receiving bids Nov. 22 for tracks on portion railway, 8th Ave. and 162d St. connection, Sect. No. 10-C. C. H. Pegram, Ch. Engr.

N. Y., New York—(Manhattan)—Pier—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, receiving bids Nov. 20 for extending Pier No. 20, foot Chambers St., Contract No. 1420.

N. Y., New York—(Manhattan)—Pier—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, receiving bids Nov. 20 for extending Pier No. 21, foot Duane St., Contract No. 1549.

N. Y., New York—(Manhattan)—Playground—Park Bd., Dept. Parks, Municipal Bldg., receiving bids Nov. 23 for improving playground bounded by Convent Ave., St. Nicholas Terrace, 136th and 138th St.

N. Y., New York—(Queens)—Park—Bd. of Estimate and Apportionment considering plans for ocean promenade between beach 126th St. and point west Beach 141st St., also for public park between promenade and Atlantic Ocean, Rockaway Beach. N. P. Lewis, Ch. Engr. Bd. J. A. Dayton, Comr. Pub. Wks. Boro. Queens.

N. J., Audubon—Park—Borough plans, about $2,000,000.

N. J., Longport—Seawall—Borough making revised plans. Case Construction Corporation, 1170 Broadway, New York, Engr. Noted Nov. 2.

N. J., Morristown—Park—Morristown Impvt. Association plans to convert Speedwell Lake tract of 32 acres into park.

N. J., Rutherford—Elimination Grade Crossings—Erie R.R. made plans, 4 grade crossings at Park Ave. About $40,000. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Sept. 21.

Penn., Philadelphia—Parkway—City plans to improve parkway from entrance at Broad and Arch St. to Fairmount Park. Plans include colonnade, bandstand and fountain. About $100,000. G. S. Webster, Engr. Pub. Wks. C. Albright, City Engr.

Penn., Philadelphia—Piers—City making plans. Snyder St. G. S. Webster, Dir. Wharves, Docks and Ferries.

Penn., Philadelphia—River Improvements—State Legislature will be asked by shipping interests and city officials to remove Horseshoe Shoals in bend Delaware River near League Island. About $500,000. G. S. Webster, Dir. Wharves, Docks and Ferries.

Penn., Roaring Branch—Dike—County rejected bids, along Lycoming Creek. New bids. Address County Clk., Roaring Branch. Noted Nov. 2.

Md., Canton—(Baltimore post office)—Pier—Pennsylvania R.R. plans, concrete and timber. A. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

Md., Sparrows Point—Engine House—Bethlehem Steel Corporation plans.

Ala., Birmingham—Elimination of Grade Crossing—See item under "Streets and Roads."

Ala., Decatur—Wharf—City plans on Tennessee River foot Bank St. W. A. McCalla, Decatur, Engr.

Miss., Natchez—Revetment—Natchez & Southern Ry. plans to spend about $10,000. C. B. Brownell, Natchez, Vice-Pres., Gen. Mgr. and Pur. Agt.

Ohio, Cleveland—(East Cleveland)—Park—City making plans 325x700-ft. park and 80x80-ft. swimming pool on Shaw Ave. W. Hirsch, 1306 Swetland Bldg., Arch. Noted July 6.

Ohio, Columbus—Elimination of Grade Crossing—City, Pennsylvania Lines West of Pittsburg, Cleveland, Cincinnati, Chicago & St. Louis Ry. and Hocking Valley Ry. plan, Dennison Ave. H. Maetzel, City Engr. T. Rodd, Pittsburg, Ch. Engr. Pennsylvania Lines West of Pittsburgh.

Ohio, Elyria—Elimination of Grade Crossings—Council passed ordinance to eliminate crossings of New York Central R.R., Lines West of Buffalo on Cedar, Mill, Tremont, Chestnut and North St. and Washington and West Ave. G. C. Cleveland, St. Clair Ave. and 3d St., Cleveland, Ch. Engr.

Ohio, Euclid—Park Site and Bathing Beach—Village defeated $200,000 bonds. Noted Sept. 7.

Ohio, Lima—Retaining Wall—Council passed ordinance for retaining wall over stone quarry East North St. J. I. Heffner, City Clk.

Ohio, Youngstown—Elimination of Grade Crossings—Erie R.R. made plans. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Oct. 21.

Ohio, Zanesville—Revetment—City receiving bids Nov. 21, along Licking River, about 17,200 lb. steel reinforcing, 263 cu.yd. concrete and 282 cu.yd. excavation. C. R. Spencer, City Engr. Noted Nov. 2.

Mich., Boyne City—(Official)—Playgrounds—City defeated $6,000 bonds. Noted Nov. 2.

Ill., Cairo—Subway—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans on Sycamore St. next spring. C. A. Paquette, Cincinnati, Ch. Engr.

Ill., Chicago—Track Elevation—Chicago & Western Indiana R.R. and Chicago, Rock Island & Pacific Ry. plan to elevate tracks. E. H. Lee, Polk and Dearborn St., Chicago, Vice-Pres. and Ch. Engr. Chicago & Western Indiana R.R.

Wis., Superior—Dock—Northern Pacific Ry. plans 600-ft. addition to ore dock. About $175,000. H. E. Stevens, St. Paul, Ch. Engr.

Mo., Hardin—Levee—J. M. Rhodes, Secy. Bd. Dir. Levee Dist. No. 4, Hardin Bank, receiving bids Nov. 18 for 5.5 mi. levee.

Mo., Joplin—Park—City plans to improve Schifferdecker and McClelland Parks, new park in St. Joes bottoms north Broadway Viaduct also at Castle Rock and Center Creek crossing North Main St. Bd. H. McIndoe, Mayor.

Wash., Seattle—Pier—Galbraith, Bacon & Co. plan to rebuild Pier No. 12 destroyed by fire.

Ore., Hood River—Wharf—City plans. Comm. of Pub. Docks of Portland will aid project. C. B. Hegardt, Ch. Engr. Comm., Portland.

Calif., San Rafael—Channel—City defeated $50,000 bonds for improving San Rafael Channel. Noted Sept. 7.

Bids In and Contracts Awarded

Mass., Beverly—Fire Station—City received low bid, Bridge St., from W. H. Cann, Rantoul St., about $5,475.

Miscellaneous (Continued)

Mass., Boston—Park Improvements—City received low bids development South Boston Strandway from New York State Dredging Corp., $803,180; Coleman Bros., $835,465; West Roxbury Trap Rock Co., $858,429. Noted Oct. 19.

Mass., Boston—Wall—City received bids, Suffolk County Jail, from W. H. Pieble Co., Pemberton Sq., $7,242; M. S. Kelliher & Co., Quincy, $7,259; McNeill Construction Co., 201 Devonshire St., $7,400.

Mass., Revere—(Official)—Fire Station—City let contract to J. CYR & CO., Lawrence, about $13,886. Noted Nov. 2.

N. Y., New York—(Boroughs of Bronx and Queens)—Signal Towers—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, received low bids 13 signal towers on River Rd. Ave. and Jerome Ave. extension of Seventh Ave.-Lexington Ave. line, White Plains Rd. line and Queensboro Subway from H. C. Stowe Construction Co., 221 Greenpoint Ave., Brooklyn, $110,650; Snare & Triest Co., Woolworth Bldg., Manhattan, $113,442; T. Dwyer, $113,444. These are unofficial totals. Noted Oct. 26.

Penn., Erie—Elimination Grade Crossing—City let contract excavating for eliminating grade crossing over Parade on 14th St. to L. V. METZ, about $12,984. Noted Sept. 21.

Penn., Philadelphia—Riding Pavilion—H. A. Laughlin let contract, Grefeldt and Chestnut Hill St., to E. J. KREITZBURG, Philadelphia, about $10,000.

Md., Sharpsburg—(Official)—Fence—New York Monuments Comn. let contract around New York State Reservation to C. KAPPES, Gettysburg, Penn., about $4,028. Noted Oct. 5.

Miss., Clarkesdale—Levee—Yazoo & Mississippi Delta Levee Dist. let contract 3,000,000 cu.yd. levee work to R. C. CHESHIRE, 324 Falls Bldg., Memphis, about $1,000,000. Noted Mar. 16.

La., New Orleans—Levee Work—Bd. State Engrs. let contract Henderson Levee, to R. T. CLARK; Concordia Parish levee to FOREST CONSTRUCTION CO. Noted Nov. 9.

Ohio, Cleveland—Comfort Stations—City let contract St. Clair Ave. and East 105th St. to MINNICK-GIBBONS CONSTRUCTION CO., 5309 Prospect Ave. Noted Oct. 19.

Ohio, Dayton—(Official)—Fire Station—City let contract excavation and concrete to G. B. WETZEL, brick work and stone, J. W. BAREN & SONS, both of Dayton. Noted Sept. 21.

Ohio, Dayton—Levee—Reichelderfer & Sons, Circleville, at $13,700, only bidder widening and strengthening levees on new dam Miami River.

Ohio, Zanesville—Market House—City received bids from W. C. Handshym $14,870; A. A. Vinsel, $15,061; Taylor & Lynn, $16,017. Noted Aug. 17.

Mich., Detroit—Comfort Station—City let contract Riverside Park, West Jefferson and Morrell St. to CORRICK BROS., 415 Trussed Concrete Bldg.

Ill., Maywood—(Official)—Elimination of Grade Crossings—Chicago & Northwestern R.R. plans, Bellwood and Melrose Park, by force account. W. H. Finley, Jackson Blvd. and Franklin St., Ch. Engr. Noted Nov. 2.

Iowa, Waterloo—Elimination Grade Crossings—Chicago Great Western and Chicago, Rock Island & Pacific R.R. let contract to MOORE-SIEG CONSTRUCTION CO.

Mo., St. Louis—Dock—Bd. Pub. Ser. let contract North Market St. Municipal Dock to HEMAN CONSTRUCTION CO., $187,250. Noted Oct. 12.

Tex., Galveston—Bulkhead—City received bids along crest seawall improvement fill between 16th and 17th St. from Blodgett Construction Co., $1.24 per ft., H. J. Hetkes, $1.40 per ft., McCall-Moore Engineering Co., $1.54 per ft. Noted Nov. 9.

Tex., Orange—(Official)—Wharf and Bulkhead—City let contract to W. MOORE & SON, Texas City, about $40,000. Noted Nov. 9.

Wash., Seattle—Dry Dock—Seattle Construction and Dry Dock Co. let contract to J. McATEER, about $225,000. Noted July 20.

Calif., San Bernardino—(Official)—River Protection—County rejected bids, along Mohave River. Work to be done by force account. Noted Oct. 26.

N. B., West St. John—(Official)—Shed, Etc.—City let contract shed, etc., on Pier No. 1, Berth No. 16, to D. C. CLARK, West St. John.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Vt., Proctor—Office—Vermont Marble Co. making plans. R. C. Sturgis, 120 Boylston St., Boston, Mass., Arch.

Mass., Beverly—School—St. Ann's Church Society making plans, 3-story, 60x90-ft. C. E. Fournier, 20 Bennett St., Arch.

Mass., Bridgewater—Dormitory and Service Building—Bd. Education made plans, for State Normal School. G. Lowell, 12 West St., Boston, Arch.

Mass., Chicopee—High School—City making plans, 3-story. About $60,000. G. E. Haynes, 184 North St., Pittsfield, Arch.

Mass., Pittsfield—L. G. Lloyd making plans for 2-story, 120x150-ft. brick building at North and Bradford St. About $50,000. P. F. McLaughlin, 21 North St., Arch.

Mass., Springfield—School—City authorizes bond issue of $540,000.

Conn., Manchester—Theater—H. F. Sheridan plans, at Main and North School St.

Conn., New Haven—Passenger Station—New York, New Haven & Hartford Railroad Co. making plans. E. Gagel, New Haven, Ch. Engr.

N. Y., Auburn—New York Telephone Co. plans building. About $150,000.

N. Y., Elmira—Library—Library Association plans, at Lake and Church St. About $70,000.

N. Y., Endicott—Church—Methodist Society retained Jewell & Hayes, Arch., 1108 Press Bldg., Binghamton, to make plans, 1-story. About $40,000. Noted Aug. 10.

N. Y., New York—(Bronx)—(Official)—Police Station—City receiving bids, 4-story, 538x718-ft. 142d St. and Brook Ave. About $75,000. Cross & Cross, 10 East 47th St., Manhattan, Arch.

N. Y., New York—(Bronx)—C. B. J. Snyder, Supt. Schools, Park Ave. and 59th St., Manhattan, receiving bids Nov. 20 for completing "Evander Childs High School," East 184th St. and Field Pl.

N. Y., New York—(Bronx)—(Official)—Synagogue—Sons of Israel, 178th St. near Mapes Ave. receiving bids, brick, limestone and terra cotta. About $41,000. B. H. & C. H. Whinston, 509 Willis Ave., Bronx, Arch.

N. Y., New York—(Manhattan)—(Official)—Theater—190th St. Holding Co., 35 Nassau St., receiving bids, 1-story, 120x215-ft., at 5th Ave. near 79th St. About $60,000. T. W. Lamb, 8th Ave. and 41st St., Manhattan, Arch.

N. Y., Rochester—Clubhouse—Sphinx Club making plans.

N. J., Burlington—Masonic Home—New Jersey Grand Lodge, F. & A. M. making plans, 4-story, 38x81x17x65-ft. About $75,000. L. Parsons, 1133 Broadway, New York, Arch.

N. J., Newark—Church—St. Casimir's Congregation making plans. About $100,000. J. S. Pigott, Union Bldg., Newark, Arch.

N. J., Newark—School—Bd. Education receiving bids Nov. 27 on Speedway Ave. R. D. Argue, Secy. Bd. Education.

N. J., Orange—Hospital—New Jersey Orthopedic Hospital plans. About $200,000.

N. J., Princeton—Passenger Station—Pennsylvania R.R. making plans. About $45,000. A. C. Shand, Philadelphia, Ch. Engr.

N. J., Trenton—Young Men's Hebrew Association plans improving building. W. W. Slack & Son, Trenton, Arch.

Penn., Allentown—Hospital—Sacred Heart Hospital obtained subscription of $183,000. H. E. Bohner, Chn. Executive Com.

Penn., Ambler—Ambler Trust Co. plans bank and office building.

Penn., Ashley—High School—School Bd. plans. About $135,000. T. Cole, Secy. School Bd.

Penn., Berwick—Church—Bower Memorial United Evangelistic Church making preliminary plans at 2d and Arch St. About $10,000. A. H. Hartman, Scranton, Arch. Noted Oct. 26.

Penn., Chester—Church—Evangelical Lutheran Congregation receiving bids Nov. 20, for 2-story, 38x80-ft. stone. H. Miller, Chester, Arch.

Penn., Coatsville—Hotel—Midvale Steel and Ordinance Co. plans, brick. About $50,000.

Penn., Coudersport—High School—School Dist. received bids Nov. 21, at Main and Water St. Hersch & Hersch, Central Trust Bldg., Altoona, Arch.

Penn., Dunmore—High School—City retained H. J. Blackmore, Arch., 445 Quincy Ave., Scranton, to make plans. About $100,000.

Penn., New Castle—Cathedral—F. & A. M. plan, 250x250-ft., Highland and Laurel Ave. About $250,000.

Penn., Scranton—Church—Roman Catholic Congregation making plans, 1-story, 60x140-ft., brick and stone, at Gibson and Taylor St. About $40,000.

Penn., South Bethlehem—Clubhouse—Moose Lodge making plans, 3-story, 44x80-ft., brick and stone.

Penn., West Chester—School—Bd. Education making plans for 3-story, concrete and brick. About $125,000. P. A. Davis, Arch.

D. C., Washington—Theater—Penn Garden making plans, 4-story, 128x158-ft. About $250,000. E. D. Ryerson, 3758 Northampton St., Washington.

Va., Lynchburg—Y. M. C. A. plans building. About $100,000.

Va., Newport News—School—Bd. Education making plans, 3-story. About $80,000. Ferguson, Calrow & Wrenn, Virginia Bank Bldg., Arch.

Va., Roanoke—Freight Station—Norfolk & Western R.R. made plans, Commerce and Park St. About $380,000. J. E. Crawford, Roanoke, Ch. Engr.

Ala., Birmingham—Birmingham Infirmary making plans for central building. About $50,000. B. Brice, Empire Bldg., Arch.

Ky., Ashland—Schools—City voted $200,000 bonds.

Ky., Louisville—Dormitory and Club House—Dirs. Pendennis Club plan 6- or 7-story. M. J. Taylor, Pres.

Ohio, Bedford—School—City voted $50,000 bonds. E. F. Senter, Clk. Noted Nov. 2.

Ohio, Dayton—Dayton Aerie of Eagles making plans for 3-story, 80x100-ft. addition to building on South Main St. About $50,000. Pretzinger & Musselman, 1155 Reibold Bldg., Arch. Noted Oct. 5.

Ohio, Felicity—School—City plans, 2-story. About $40,000. C. P. Kennedy, Clk.

Ohio, Geneva—Hospital—Geneva Emergency Hospital making plans, 3-story, 35x40-ft. Briggs & Nelson, Rose Bldg., Cleveland, Arch.

Ohio, Lebanon—High School—Bd. Education retained Bausmith & Drainie, Arch., Gerke Bldg., Cincinnati, to make plans. About $60,000.

Ohio, Lima—City making plans for South Side Technical High School.

Ohio, Lorain—Hotel—C. Farrel made plans, 4-story, Broadway and Erie Ave. About $50,000. Noted Oct. 12.

Ohio, Norwood—Seminary—Mt. St. Marys Theological Seminary receiving bids about Jan. 1. About $450,000. A. Kunz, Jr., 955 West Court St., Cincinnati, Arch. Noted July 20.

Ohio, Rocky River—School—Town voted $75,000 bonds.

Ohio, Warrensville—Council approved $100,000 bond issue to enlarge tuberculosis sanitarium. L. T. Beman, City Hall, Cleveland, Dir. Pub. Welfare. Noted Oct. 26.

Ohio, Wellsville—High and Grade School—Bd. Education receiving bids Dec. 6. Noted Oct. 5.

Ohio, Youngstown—Freight Depot—Pennsylvania Railroad Co. plans, at foot of South Phelps St. A. C. Shand, Philadelphia, Ch. Engr.

Ind., Crawfordsville—Gymnasium—Wabash College plans. About $75,000. Herbert Foltz, Pythian Bldg., Indianapolis, Arch.

Ind., Ft. Wayne—Y. M. C. A. retained C. R. Weatherbogg, Arch., to make plans for building. About $300,000.

Ind., Indianapolis—Science Building—Indiana State Normal School plans. About $94,364.

Mich., Alma City—School—Bd. Education plans. About $100,000. O. Sanderhoff, Pres. Bd. Education.

Mich., Chesaning—High and Grade School—Bd. Education making plans, 2-story. About $65,000. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., Arch.

Mich., Detroit—Hotel—W. H. Montgomery making plans, 3-story, 100x180-ft. Lumblad & Lumblad, 2060 Penobscot Bldg., Detroit, Arch.

Mich., Midland—Community Building—Dow Chemical Co. receiving bids Nov. 23, 2-story. About $50,000. Cowles & Mutscheller, 114 Washington St., Saginaw, Arch.

Mich., Walkerville—High School—School Bd. plans.

Ill., Champaign—Church and Rectory—Episcopal Church making plans. About $50,000. Cram & Forguson, 33 West 42d St., New York, N. Y., Arch.

Ill., Peoria—Hospital—Sanitarium Comn. plans tuberculosis hospital. About $55,000. E. S. Woolner, Chn.

Wis., Kenosha—Club House—B. P. O. E. No. 750 receiving bids Nov. 20, 3-story. About $100,000. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, Arch. Noted Oct. 5.

Wis., Madison—Y. M. C. A. making plans for building. About $150,000. Noted Nov. 2.

Wis., Milwaukee—Hotel—I. Miller, Herman Pereles and Walter W. Kauwertz making plans, 4th and Sycamore St. About $300,000. Leiser & Holtz, Milwaukee, Arch.

Iowa, Alburnett—School—Consolidated School Dist. receiving bids Nov. 30. A. B. Olsen, Secy.

Iowa, Boone—Y. M. C. A. plans new building. About $50,000.

Iowa, Cedar Rapids—A. N. Palmer, 300 Irving Pl., New York, plans rein.-con. 4-story, 120x140-ft. business building at Cedar Rapids.

Iowa, Centerville—High School—City plans to issue $150,000 bonds.

Iowa, Hampton—Hotel—Bankers Realty Investment Co., Arch., Omaha, Neb., making plans, 3-story, brick and terra cotta. About $75,000.

Iowa, Mason City—School—Independent School Dist. receiving bids Dec. 10. About $40,000. E. R. Bogardus & Son, 119½ North Federal Ave., Mason City, Arch. Noted Aug. 24.

Iowa, Sioux City—Nurses' Home—St. Joseph's Hospital plans 4-story, brick and terra cotta.

Iowa, Sioux City—Church—First Baptist Congregation making plans. About $75,000. Bentley & Arnold, 609 Security Bldg., Arch.

Minn., Cloquet—High School—City voted $70,000 bonds.

Minn., Hanska—High School—Village soon votes on bonds. About $60,000.

Minn., Madison—Hotel—Kletzech Bros., Milwaukee, plan 7-story addition to Park Hotel. About $250,000.

Buildings (Continued)

Minn., Wells—School—City voted $50,000 bonds.

Minn., Minneapolis—Y. M. C. A. receiving bids May 1 for 8-story, 125x160-ft. building. About $500,000. Long-Lamoreaux & Long, 830 Hennepin Ave., Arch. Noted Nov. 2.

Kan., McPherson—Theater—J. Tourney, making plans, brick and terra cotta.

Kan., Paola—School—Bd. Education voted $60,000 bonds. Noted Sept. 28.

Neb., Havelock—(Official)—High School—City voted bonds. W. F. Gernandt, 437 Keeline Bldg., Omaha, Arch. F. B. Young, Secy. Noted Oct. 5.

Neb., Omaha—School—Druid Hill School Dist. rejected bids. New bids soon. About $70,000. F. A. Henninger, 606 Rose Bldg., Arch.

Neb., Superior—J. H. Agee, Chamber of Commerce, plans organizing company to build hotel. About $50,000.

Mont., Conrad—City Hall—City voted bonds.

Mont., Fairview—Bank—Moorman & Co., Arch., 501 Minnehaha St., St. Paul, Minn., making plans, brick and stone. About $60,000.

Mo., Alton—School—School Bd. plans to vote in spring on $45,000 bonds.

Mo., Bowling Green—(Official)—Court House—City voted $100,000 bonds. Noted Sept. 14.

Mo., Bowling Green—Hotel and Sanitarium—Bowling Green Mineral Springs Co. made preliminary plans. About $175,000. J. H. Lynch, 625 Locust St., St. Louis, Arch.

Mo., Galena—Court House—Stone County defeated $50,000 bonds. Noted Oct. 19.

Mo., Maplewood—High School—Bd. Education receiving bids Nov. 21. About $100,000. Miller & Chaffee, Jefferson City, Arch. Noted May 11.

Tex., Amarillo—School—City voted $50,000 bonds. Noted Nov. 2.

Tex., Austin—State soon receives bids for land office building. About $300,000. A. B. Ayers, Arch.

Tex., Dallas—Mechanical College of Texas and Prairie View Normal School made plans for buildings. About $215,000. W. B. Bizzell, Pres.

Tex., El Paso—Court House—City votes Nov. 29 on $450,000 bonds.

Tex., Ft. Worth—Hotel—Moore & Clopton plan 15-story. About $500,000.

Tex., Houston—High School—Bd. Education making plans. Aanguinet, Staats & Gottlieb, Arch.

Tex., San Angelo—Hotel—C. C. McBurnett plans. About $150,000.

Tex., Sulphur—Draughon's Business College made plans for 3-story, 79x90-ft. building. About $60,000. G. E. Blumenauer, Sulphur Springs, Arch.

Tex., Tyler—School—City voted $85,000 bonds. Noted Nov. 2.

Tex., Victoria—School—Bexar County election soon to vote on $10,000 bonds for addition to Alamo Heights School. Noted Mar. 9.

Okla., Ardmore—Hotel—Ardmore Hotel Co. making plans for 6-story, rein.-con. and brick, at C and Main St. Wight & Wight, First National Bank Bldg., Kansas City, Mo., Arch. Noted Aug. 10.

Okla., Bartlesville—(Official)—High School—City voted $100,000 bonds. Noted Oct. 12.

Okla., Stillwater—Court House—Payne County voted $100,000 bonds. Noted Sept. 28.

Okla., Tulsa—Church—First Church of Christ Scientist making plans. Bids soon. About $50,000. MacDonald & Fabry, 405 First National Bank Bldg., Arch.

Colo., Denver—Hotel—Bishop—Cass Investment Co. making plans, 16-story, at 16th and Arapahoe St. About $1,000,000. Fisher & Fisher, Railway Exchange Bldg., Arch.

Colo., Estes Park—Hotel—E. O. Stanley plans. About $200,000.

Wash., Mt. Vernon—School—City soon lets contract, 2-story, 76x132-ft. About $60,000. Stephen & Stephen, New York Blk., Seattle, Arch.

Ore., Bend—Hospital and Convent—Sisters of Charity of Nazareth plan. About $75,000.

Ore., Corvallis—School—City to vote in November on $75,000 bonds.

Ore., Portland—Schools—University of Oregon making plans. About $150,000. Whitehouse & Fouilhoux, Arch.

Calif., Fresno—Theater—M. R. Parra plans. About $50,000.

Calif., Long Beach—Theater—E. E. Gagon, Mgr. Empress Theater, plans. About $150,000.

Calif., Palo Alto—Bd. Education retained Allison & Allison, Hibernian Bldg., to make plans for Palo Alto Union High School, Dist. No. 3. About $150,000.

Calif., San Bernardino—Anderson & Co. plan 5-story, 55x150-ft. rein.-con. office building, 3rd and E St.

Calif., San Diego—Hospital—Agnew Sanitarium made preliminary plans, 4-story, Beech and 6th St. D. Gochenauer, M. D., Pres.

Calif., Santa Barbara—Prince Hopkins Institution soon lets contract for 3-story, 100x150-ft. rein.-con. academy building. J. C. Poole, Santa Barbara, Arch.

N. S., Kentville—Sanitarium—Dominion Government, Dept. Pub. Wks., making plans. About $60,000. A. Miller, M. D., Kentville, Provincial Supt.

Que., Lauzon—Home for Infants and Aged soon lets contract for new building. About $55,000. Noted Nov. 2.

Bids In and Contracts Awarded

Maine, Augusta—Hospital—Augusta State Hospital let contract addition to O. NELSON CO., Bangor. About $62,500. Noted Oct. 5.

Maine, Portland—High School—City let contract to F. W. CUNNINGHAM & SONS, 430 Congress St., Portland. About $560,000.

Mass., Boston—Club House—Bunker Hill Boys' Club of Charleston let contract, 2- and 3-story, 70x164-ft. to MARR BROS. & STEWART, 319 Washington St., Boston, $125,000. Noted Sept. 21.

Mass., Brockton—School—City let contract, 2-story, 35x170-ft. addition, to H. C. BRIGGS, Brockton. About $84,999. Noted Aug. 24.

N. Y., Mt. Pleasant—Almshouse—County let contract, 2-story, 100x400-ft., to P. J. BRENNAN, 624 Madison Ave., New York, $500,000.

N. Y., Potsdam—School—State Normal and Training School received low bids, 3-story, 170x280-ft., from T. H. McHale & Son, Syracuse, $250,638; Bradley & Weed, Inc., 200 5th Ave., New York, $254,000. L. F. Pilcher, Capitol, Albany, Arch. Noted Oct. 5.

N. Y., Syracuse—School—Sacred Heart Society let contract, 2-story, 76x154-ft., to DAWSON BROS., 231 Union Bldg., Syracuse. About $50,000. Noted Sept. 21.

N. Y., West Haverstraw—Hospital—New York State Hospital for Crippled and Reformed Children, West Haverstraw, received low bid from W. H. Egan, 147 East 125th St., New York, $41,923. Noted Oct. 12.

Penn., McKees Rocks—Clubhouse—Probation Society let contract to W. SEMLER, McKees Rocks.

Va., Petersburg—High School—Bd. Education let contract, 2-story, to HARDWOOD & MOSS, Newport News, $121,000. Noted July 20.

W. Va., Logan—Hotel and Store—H. Ghiz let contract, 4-story, 102x110-ft., to J. WEBER, College Hill, Cincinnati. About $45,000. Noted Aug. 17.

Ga., Macon—Store—Union Dry Good Co. let contract 5-story, Cherry St., to F. S. FULGUM, Pensacola, Fla. About $85,000.

La., Shreveport—School—Caddo School Bd. let contract to W. H. WERNER, Shreveport, $60,800. Noted May 11.

Tenn., Clarksville—Church—First Baptist Congregation let contract to FOSTER-CREIGHTON GOULD CO., First National Bank Bldg., Nashville, $60,000. Noted Nov. 2.

Ohio, Akron—Hospital—City Hospital let contract remodeling and extensions, East Market St., to E. McSHAFFERY & SON CO., Akron. About $100,000. Noted July 27.

Ohio, Old Fort—School—School Bd. let contract to ZIEMKE BROS., Sandusky, $40,000. Noted Sept. 7.

Mich., Battle Creek—Y. M. C. A. let contract 2½-story, 85x90-ft. building to S. B. COLE, Norgan Blk., Battle Creek. About $50,000. Noted July 27.

Mich., Ypsilanti—Administration Building—Michigan State Normal College let contract to A. R. COLE, INC., Ann Arbor, $136,394. Noted Oct. 12.

Ill., Homewood—Club House—Ravisloe Country Club let contract, 1- and 2-story, to P. DAHL, 11 South La Salle St., Chicago. About $150,000. Noted Sept. 28.

Ill., Peoria—Church—Union Congregational Church let contract to MENELEY CONSTRUCTION CO., 533 Main St., Peoria.

Iowa, Ames—Dormitory—Bd. Education, Capitol, Des Moines, rejected bids, No. 3. Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, Arch. Noted Oct. 26.

Iowa, Grinnell—Boy's Dormitory—Grinnell College let contract, 3-story, rein.-con., to BAILEY-MARSH CO., 725 Metropolitan Life Bldg., Minneapolis, Minn. About $200,000.

Iowa, Sioux City—Hospital—Benedictine Sisters let contract to B. E. SHORT, 422 Court St., $150,000.

Minn., Anoka—Infirmary—Anoka Insane Asyulm received low bid from Cameron & Co., Ryan Bldg., St. Paul, $18,966.

Minn., Hibbing—Church—Methodist Episcopal Society rejected bids, 2-story, 55x75-ft. Austin Terryberry, Duluth, Arch.

Min., St. Cloud—Church—First Presbyterian Congregation let contract, 1-story, 50x100-ft., to E. HIRT & SON, St. Cloud. About $40,000. Noted Aug. 17.

N. D., Mandran—Hotel—L. B. Hanna let contract reconstructing Inter-Ocean Hotel to MEINICKE BUILDING CO. About $100,000. Noted Nov. 9.

Mo., Joplin—Department Store—Christman Dry Goods Co. let contract to C. W. BANE, 1815 Jackson St. About $85,000.

Okla., Tulsa—S. Jankowsky let contract 4 additional stories to office building on 4th and Main St. to UNIVERSAL CONSTRUCTION CO., Tulsa. About $68,500.

Ore., Grants Pass—(Official)—Court House—Josephine County let contract to J. M. DOUGAN & CO., Couch Bldg., Portland, $76,443. Noted Oct. 26.

Calif., Oakland—Hospital—Bd. County Supervs. let contract to W. G. THORNALLY, 3027 East 16th St., Oakland, $106,985.

Que., Montreal—School—School Bd. let contract addition to DUROCHER & ARCHAMBAULT, 706 St Catherines St., E., $155,000.

Ont., Ottawa—Norlite Realty Co. let contract brick and stone office building to DORAN & DEVLIN, Ottawa, $130,000.

TRADE PUBLICATIONS

Lupton Service Products. David Lupton's Sons Co., Philadelphia, Penn. Catalog No. 9. Pp. 98. 8½x11 in. This describes in detail Lupton Counter-Balanced Steel Sash, Continuous Sash, Pond Operating Device and other products made by this company.

Manganese Steel Sand and Gravel Pumps and Wearing Parts for Pump Dredges. American Manganese Steel Co., Chicago, Ill. Bulletin No. 72. Pp. 16. 6x9 in. Illustrated.

Trucks and Turntables. Whiting Foundry Equipment Co., Harvey, Ill. Catalog No. 124. Pp. 16. 6x9 in. Illustrated.

"Clipper" Drills. The Denver Rock Drill Manufacturing Co., Denver, Colo. Bulletin C-3. Pp. 16. 6x9 in. Illustrated.

Standardized Metal Caging for Fireproof Buildings. Mitchell-Tappen Co., 50 Broad St., New York. Bulletin No. 14. Pp. 12. 4x9½ in. Illustrated.

Water Meters. National Meter Co., 84-86 Chambers St., New York. Loose-Leaf Catalog. 8½x10 in. Illustrated. This covers the various types of water meters manufactured by this company—all very well known.

Buckets. The Hayward Co., 50 Church St., New York. Catalog No. 43; pp. 80, 6x9 in. Illustrated. This describes the different types of buckets made by this company.

Water-Controlling Apparatus. Rodney Hunt Machine Co., Orange, Mass. Catalog No. 30; pp. 112; 6x9 in.; illustrated. This describes flumes, penstocks, standpipes, gates, valves, hoists, etc.

The Giles Drilling Co., 30 Church St., New York, N. Y., has taken over the business, plant and equipment of the firm of Giles & Clark, which was dissolved by the retirement of Edward A. Clark.

PARK IMPROVEMENTS, WESTFIELD, N. J.

Bids were received by Bd. of Park Comrs. for park improvements from (A) G. W. LAWRENCE, 20 Clinton St., Newark (awarded contract); (B) J. F. Shanley Co., Essex Bldg., Newark; (C) George Scott, Irvington. The item bids were as follows:

	A	B	C
Grubbing and clearing (lump sum)	$650 00	$300 00	$5,500 00
12,500 cu.yd. excavation	55	55	75
25 cu.yd. sand surfacing	7 00	3 20	2 25
13 tons spreading fertilizer	5 00	1 25	10 00
5 acres finishing and seeding grades	40 00	70 00	100 00
100 cu.yd. top soil furnished	1 50	2 65	2 50
2,000 sq.yd. sodding	30	60	50
5,820 sq.yd. 6-in. macadam	85	1 10	95
5,300 sq.yd. gravel paths	70	63	55
100 sq.yd. cobble gutters	60	1 50	2 00
600 lin.ft. 8-in. drain pipe	70	65	70
380 lin.ft. 10-in. drain pipe	85	78	80
170 lin.ft. 12-in. drain pipe	1 10	87	88
80 lin.ft. 15-in. drain pipe	1 35	1 05	1 02
500 lin.ft. 4-in. underdrain	50	35	50
200 lin.ft. 6-in. underdrain	60	40	56
9 brick catch basins	80 00	60 00	40 00
17 pipe catch basins A	27 00	21 00	30 00
1 pipe catch basin B	11 50	18 00	20 00
2 inlets A	17 00	10 00	20 00
1 inlet B	20 00	10 00	20 00
66 lin.ft. concrete culvert-24 ft	2 00	2 25	2 00
20 cu.yd. extra concrete	7 50	10 00	10 00
80 lin.ft. concrete curb and gutter	90	90	90
90 lin.ft. 4-in. blue stone curb set	.75	.75	75
Extended totals	$20,506	$21,583	$28,193

SEWER, PHILADELPHIA, PENN.

Bids were received by the Dept. City Transit, Oct. 24, for the reconstruction of sewer in Thompson St. from east of 7th St. to west of Broad St. from (A) Keystone State Construction Co., 704 Pennsylvania Bldg., Philadelphia; (B) Lombardi & Perna, 600 Lincoln Bldg., Philadelphia; (C) Adolph Jaffola, 139 East 50th St., Philadelphia. The item bids were as follows:

DESIGN A	A	B	C
426 lin.ft. brick sewer, 9 ft., 0 in. diameter in cradle	$58.00	$66.00	$73.00
100 lin.ft. brick sewer, 9 ft., 0 in. diameter, minimum section	51.00	62.00	70.00
1194 lin.ft. brick sewer, 8 ft. 0 in. diameter in cradle	64.00	65.00	69.50
1466 lin.ft. brick sewer, 8 ft., 0 in. diameter, minimum section	62.00	64.00	69.00
Concrete special section (lump sum)	16,000.00	14,000.00	13,000.00
100 lin.ft. vitrified clay pipe, 6-in. diameter, not in concrete	1.00	3.00	.60
100 lin.ft. steel bound granolithic curb	2.00	4.00	3.00
10,000 dollars force account, expenditure, % added	20%	10%	15%
Extended totals Design A	$215,416	$221,450	$237,095
DESIGN B	A	B	C
427 lin.ft. concrete sewer, 9 ft., 6 in. x 6 ft., 9 in. in. cradle	$52.00	$59.00	$74.00
100 lin.ft. concrete sewer, 9 ft., 6 in. x 6 ft. 9 in. minimum section	49.00	58.00	71.00
1194 lin.ft. concrete sewer, 8 ft., 0 in. x 6 ft. 3 in. in cradle	58.00	58.50	71.50
1466 lin.ft. concrete sewer, 8 ft., 0 in. x 6 ft., 3 in., minimum section	58.00	57.00	70.00
Concrete special section (lump sum)	16,000.00	14,000.00	13,000.00
100 lin.ft. vitrified clay pipe, 6 in. diameter, not in concrete	1.00	3.00	.60
100 lin.ft. steel bound granolithic curb	2.00	4.00	3.00
10,000 dollars force account, expenditure, % added	20%	10%	15%
Extended totals Design B	$199,684	$200,104	$241,549

PAVING, CLINTON, OKLA.

Bids were received Oct. 31 by city for sheet asphalt paving, street improvement Dist. No. 1, from (A) WESTERN PAVING CO., Oklahoma City (awarded contract); (B) F. P. McCormick, St. Louis, Mo.; (C) M. A. Swatek & Co., Oklahoma City. The item bids were as follows:

	A	B	C
27,445 sq.yd. sheet asphalt paving	$1.96	$2.00	$1.99
10,500 cu.yd. earth excavation	.35	.35	.35
250 cu.yd. rock excavation	1.50	1.40	1.25
2,900 lin.ft. straight concrete curb	.58	.60	.59
310 lin.ft. rad. concrete curb	.64	.65	.65
200 lin.ft. curb reset	.25	.15	.25
1,920 lin.ft. mar. curb and header	.25	.23	.28
19 curb inlet basins	20.00	17.00	19.50
7 manholes	39.00	37.00	40.00
740 lin.ft. 10-in. drain pipe	.55	.55	.54
720 lin.ft. 12-in. drain pipe	.67	.77	.70
720 lin.ft. 15-in. drain pipe	.85	.85	.84
610 lin.ft. 18-in. drain pipe	1.10	1.06	1.08
80 water taps	6.00	5.75	5.85
7,680 lin.ft. ¾-in. lead pipe	.15	.14	.15
Extended totals	$68,269	$68,669	$69,145

SEWER SYSTEM, BAYHEAD, N. J.

Bids were received by city for constructing sewer system from (A) FIELD, BARKER & UNDERWOOD, Philadelphia (awarded contract); (B) John M. Kelley Contracting Co., Camden; (C) Whiting Turner Construction Co., Baltimore. The item bids were as follows:

	A	B	C
1,490 lin.ft. 6-in. terra cotta pipe 0 to 4 ft. deep	$0.95	$0.97	$0.97
6,215 lin.ft. 8-in. terra cotta pipe, 0 to 4 ft. deep	1.08	1.05	1.08
14,158 lin.ft. 8-in. terra cotta pipe, 4 to 6 ft. deep	1.25	1.29	2.62
2,129 lin.ft. 8-in. terra cotta pipe, 6 to 8 ft. deep	1.50	1.46	3.04
45 lin.ft. 8-in. terra cotta pipe, 8 to 10 ft. deep	2.13	3.23	3.62
3,178 lin.ft. 10-in. terra cotta pipe, 0 to 4 ft. deep	1.25	1.19	1.37
100 lin.ft. 10-in. terra cotta pipe, 4 to 6 ft. deep	1.35	1.43	2.85
528 lin.ft. 10-in. terra cotta pipe, 6 to 8 ft. deep	1.48	1.70	3.39
826 lin.ft. 10-in. terra cotta pipe, 8 to 10-ft. deep	2.00	3.30	3.89
24 lin.ft. 10-in. terra cotta pipe, 10 to 12 ft. deep	3.30	3.75	4.42
270 lin.ft. 12-in. terra cotta pipe, 10 to 12 ft. deep	3.38	3.85	4.56
36 lin.ft. 8-in. c.-i. pipe, 6 ft. deep	1.82	4.44	21.00
56 lin.ft. 8x5-in. terra cotta "T" branches	.50	.64	1.21
19 10x5-in. terra cotta "T" branches	.72	.87	1.60
4 12 x 5-in. terra cotta "T" branches	.90	1.05	2.02
25 6x5-in. terra cotta "Y" branches	.45	.50	.85
385 8 x 5-in. terra cotta "Y" branches	.50	.63	1.21
327 lin.ft. terra cotta deep cut connections	.50	.39	4.25
12 manholes, complete, 0 to 4 ft. deep	45.00	45.00	40.00
24 manholes, complete, 4 to 6 ft. deep	50.00	55.41	40.00
4 manholes, complete, 6 to 8 ft. deep	60.00	64.53	50.00
2 manholes, complete, 8 to 10 ft. deep	80.00	78.63	65.00
4 manholes, complete, 10 to 12 ft. deep	125.00	88.20	75.00
25 lin.ft. drop pipe for drop manholes	1.00	2.01	.75
9 lamp holes	10.00	10.50	10.00
2 flush tanks, type "A-" 0 to 4 ft. deep	125.00	154.00	105.00
1 flush tank, type "A" 6 ft., 6 in. deep	140.00	180.00	105.00
14M ft. b.m. 1 x 8-in. hemlock planks	40.00	33.00	40.00
16M ft. b.m. 2 x 8-in. hemlock planks	40.00	33.00	40.00
2,800 lin.ft. 8-in. c.-i. force main	1.80	1.70	1.75
Extended totals	$46,510	$47,786	$74,198

* The sub soil is practically pure sand with ground water at Bayhead

Arnold W. Brunner, noted throughout the United States as the designer of the Cleveland civic center and who has thought out many of the municipal problems of New York and other large cities, has been retained by the Board of Public Grounds and Buildings of Pennsylvania to design the grounds about the Capitol Building of Pennsylvania at Harrisburg, Penn. Warren H. Manning, landscape architect of Boston, who has been the consulting expert in Harrisburg's park development program of the last 10 years, was retained as Mr. Brunner's consulting landscape architect. The Capitol grounds which now occupy 16 acres are being extended to occupy 45 acres, and the designing of these new grounds is the big job ahead for Mr. Brunner although the old grounds are to be made to conform with entire scheme and to serve as a fitting setting to the Capitol building. The city will coöperate with the state in the work in the matter of widening streets about the Capitol grounds and so on.

The Dunn Wire-Cut Lug Brick Co., Conneaut, Ohio, has added the Cleveland Brick and Clay Co., Cleveland, and the Jamestown Shale Paving Brick Co., Jamestown, N. Y., to its list of licensees to make wire-cut lug paving brick. The officers of the former company, which has a daily capacity of 60,000 blocks, are J. L. Highley, Pres., and A. L. Hendershot, Secy. The latter company has a daily capacity of 65,000 blocks and its officers are A. N. Broadhead, Pres., Thomas Mahoney, Vice-Pres., J. B. Fisher, Secy., R. F. Fisher, Mgr., and A. B. Breen, Supt.

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